This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

49-60

LITTAUER LIBRARY, SSP
HARVARD UNIVERSITY

~~Econ 8442.1~~

Complete Set Deposited

Digitized by Google

Digitized by Google

Digitized by Google

FIFTH ANNUAL REPORT

OF THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN,—

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES, AND DEATHS,

FOR THE YEAR 1871.

BY AUTHORITY.

LANSING:
W. S. GEORGE & CO., STATE PRINTERS AND BINDERS.
1874.

Digitized by Google

~~Econ 4141.1~~

Complete Set Deposited
in Littauer Center
APR 9 1941

1874. Dec. 10
Gift of
Hon. Daniel Striker
of Lansing

Digitized by Google

INTRODUCTORY LETTER OF TRANSMITTAL.

STATE DEPARTMENT, MICHIGAN,
SECRETARY'S OFFICE,
Lansing, September, 1874.

TO JOHN J. BAGLEY, *Governor of Michigan:*

SIR:—I have the honor to submit herewith the Fifth Annual Report of this Department, concerning Births, Marriages, and Deaths returned for the year 1871.

Considering the difficulties connected with the work, a majority of the County Clerks have been very diligent in the performance of their duties relating to these statistics.

The work of collecting, tabulating, and commenting upon these statistics for the year 1871 has been under the immediate supervision of Dr. H. B. Baker, the present Secretary of the State Board of Health, and Superintendent of Vital Statistics, who, as a committee from the State Medical Society, performed this service for the Vital Statistics for 1869, and also for the Report for 1870.

Very respectfully,

DANIEL STRIKER,
Secretary of State.

Digitized by Google

Digitized by Google

CONTENTS.

PAGE.

Introductory letter of transmittal, ... 3
General remarks and statements, ... xiii-xv
Births, Marriages, and Deaths in the State for the years 1868, 1869, 1870, and 1871—Exhibit A, ... xviii
Marriages, Births, and Deaths, excess of births over deaths, average number and excess, during specified periods within the year—Table I., ... xviii
Statements concerning births, marriages, and deaths for the years 1870 and 1871—Exhibit B, ... xix
For the State and counties, by sex, the population June 1, 1870, number of marriages, births, deaths, and excess of births over deaths for 1871—Table II., xx-xxv

BIRTHS:

Total Number returned during the year, ... 1
Average Number returned during specified periods within the year, . . . 1
By Quarters of the Year, for 1868, 1869, 1870, and 1871—Table I., ... 1
By Months, in order by Number, for the Years 1868, 1869, 1870, and 1871—Table II., ... 2
Order of Greatest Number by Quarters of the Year, not the same as in Preceding Years, ... 3
Births Influenced by Marriages in a Majority of the Months, ... 3
Influence of Season of Year on Birth-rate, ... 3
Omissions in returns due to delay in enumerating, ... 3
Omissions in proportion to time elapsing before enumeration, ... 4
Probable number which occurred during the year 1871, ... 5
Average number which Probably occurred during Specified Periods within the year, ... 5
Births as returned by months, 1871—Exhibit A, ... 6
Births Corrected for Omissions in enumerating—Exhibit A, ... 6
Births Equalized for Increase of Population during the Year—Exhibit A, . 6
Births Corrected and Equalized, Equalized for Months of Uniform Length—Exhibit A, ... 6
Of Males as Returned by Months—Exhibit B, ... 7
Of Males Corrected for Omissions in Enumerating—Exhibit B, ... 7
Of Males Equalized for Increase of Population during the Year—Exhibit B, . 7
Of Males Corrected and Equalized, Equalized for Months of Uniform Length—Exhibit B, ... 7
Of Females as Returned by Months—Exhibit C, ... 8
Of Females Corrected for Omissions—Exhibit C, ... 8
Of Females Equalized for Increase of Population during the Year—Exhibit C, 8
Of Females Corrected and Equalized, Equalized for Months of Uniform Length—Exhibit C, ... 8

Digitized by Google

PAGE.
Of Males and Females, Corrected for Omissions in Enumerating—Exhibit D, 9
Of Males and Females Corrected and Equalized, Equalized for Months of Uniform Length—Exhibit D, ... 9
Methods of Correction for Omissions in Returns, ... 10-11
Amendment to the Law Recommended, ... 12
Present Statistics Valuable for Certain Purposes, ... 12
By Months the Relation Between Births Returned and Marriages Solemnized—Table III., ... 13
By Months the Relation Between Births Corrected for Omissions, and Marriages Solemnized—Exhibit E, ... 14
Comments on Table III. and Exhibit E, ... 14-15
By Counties, by Months, and by Sex, the Children Returned as having been Born during the Year—Table IV., ... 16-29
Comments on Table IV., ... 30
By Color and by Sex, Population, June 1, 1870, Represented by Births in 1871—Table V., ... 30-31
By Color and by Sex, Children Born in 1871—Table V., ... 30-31
By Color and by Sex, Per Cent. of Children Born to Inhabitants June 1, 1870—Table V., ... 30-31
By Color, Women, June 1, 1870, aged 18 and under 45 Years—Table V., . . 30-31
By Color, Per Cent. of Children to Women Aged 18 to 45 years—Table V., . 30-31
By Color, Per Cent. of each Sex to Children of both Sexes—Table V., . . 30-31
Number of Inhabitants to one Child of the same Color—Table V., ... 30-31
Comments on Table V., ... 31-33
Large Birth-rate of Indian Women, ... 33
Small Birth-rate of African Women, ... 33
Increased Birth-rate and Large Proportion of Female Children, ... 33
Diminished Birth-rate and Large Proportion of Male Children, ... 33
By State, by Counties, and by Sex, the Population June 1, 1870, the Birth-rate and Color—Table VI., ... 34-42
Comments on Table VI., Relative to Color, ... 42-43
By Sex, by Number, and by Per Cent. of Total, the Parent-nativity of Children—Table VII., ... 43
By Number and Per Cent., the Parent-nativity of Children Born in each of the Years 1869, 1870, and 1871—Exhibit F, ... 44
For the Total Population and for the Native-born Inhabitants, June 1, 1870, the Number and Per Cent. of each Parent-nativity—Exhibit G, ... 45
Comments on Exhibit G, Relative to Parent-nativity of Inhabitants, ... 45
Parent-nativity of Children and Nativity of Inhabitants—Exhibit H, . . . 46
Comments on Exhibits H, I, J, K, and L, ... 47
Nativity of Inhabitants, June 1, 1870, Aged 15 to 45 Years, by Number and Per Cent.—Exhibit I, ... 47
Relation of Native and Foreign-born Parents of Children Born in 1869, 1870, and 1871, to Native and Foreign Inhabitants Aged 15 to 45 Years—Exhibit J, . 48-49
By Sex, the Nativity of Inhabitants June 1, 1870, Aged 20 to 45 Years, by Number and Per Cent.—Exhibit K, ... 48
By Sex, the Nativity of Inhabitants June 1, 1870, Aged 25 to 45 Years, by Number and Per Cent.—Exhibit L, ... 49
For the State and by Counties, by Sex and by Parent-nativity, the Number of Children Born during 1871—Table VIII., ... 50-56

Digitized by Google

PAGE.

By Sex and by Months, in order by Number, the Number of Pairs of Twins, and the Number of Twin Children Born during 1871; also Number of Males to 100 Females—Table IX., ... 59
Comments on Table IX., Relative to Twins, ... 59-60
Parent-nativity of Twins Born during 1871—Table X., ... 60
Relation of Native and Foreign-born Parents of Twins, in 1870 and 1871, to Native and Foreign-born Population—Exhibit M,* 61
By Sex, the Parent-nativity of Twins whose Parents were Natives of the Same State, and of Different States and Countries—Table XI., ... 62
Parent-nativity of Twins by State, Counties, and Sex—Table XII., ... 68-70
Occupation of Fathers of Twins Born in 1871—Table XIII., ... 71
Stillbirths, by Sex and by Months, and by Sex, Parent-nativity—Table XIV., 72
By Sex the Parent-nativity of Still-born Children by Number and Per Cent.—Table XV., ... 73
Remarks Concerning Stillbirths, ... 73-74
Illegitimate Children, by Sex, by Months, and Parent-nativity—Table XVI., . 75
Illegitimate Children, by Sex and by Color, Per Cent. of Births to Population, 1870, Per Cent of Each Sex to Both Sexes, and Number of Inhabitants to Each Child of Same Color—Table XVII., ... 76
By Sex, the Parent-nativity of Illegitimate Children, by Number and Per Cent., and Number of Males to 100 Females—Table XVIII., ... 77
Triplets, by Counties, Months, Sex, Color, Birthplace of Parents, and Occupation of Fathers—Table XIX., ... 77
For the State and by Counties, the number of Females aged 16 to 45, June 1, 1870, represented by Births in 1871—Table XX., ... 78-80
For the State and by Counties, the Per Cent. of Births in 1871 to Females aged 16 to 45, June 1, 1870—Table XX., ... 78-80
For the State and by Counties, Females aged 16 to 45, June 1, 1870, to one Child born in 1871—Table XX., ... 78-80
For the State and by Counties, Females aged 16 to 45, June 1, 1870, to one Illegitimate Child born in 1871—Table XX., ... 78-80
For the State and by Counties, the number of Females aged 16 to 45, June 1, 1870, to one Pair of Twins born in 1871—Table XX., ... 78-80
For the State and by Counties, the number of Males to 100 Females among Twin Children—Table XX., ... 78-80
For the State and by Counties, the number of Illegitimate Children born in 1871—Table XX., ... 78-80
For the State and by Counties, the number of Stillbirths in 1871, ... 78-80
By Sex and by Color, the Inhabitants, and the total number of Females aged 16 to 45, June 1, 1870, in Counties and Townships not Represented by Returns of Births—Table XXI., ... 81-83
Remarks Concerning Sex of Children, ... 84
Births by Sex and by Months Equalized to 30.44 days each—Exhibit N, . . . 85
Births by Sex and by Months Equalized to 30.44 days each, and by Months Excess of Males over Females—Exhibit O, ... 85
Diagram No. 1, facing 86
Births by Sex and by Months, Corrected for Omissions in Enumerating, Equalized for Increase of Population, and Equalized for Months of 30.44 days each—Exhibit P, ... 86

* See Erratum, page xii.

Digitized by Google

PAGE.

Comments on Exhibits O and P, and Diagram No. 1, ... 86
Relation, by Months, between the Conceptions and the Proportion of each Sex Conceived—Table XXII., ... 87
Relation, by Months, between the number of Conceptions and the number of Males to 100 Females; Conceptions Corrected, Equalized, etc.—Table XXIII. 88
Relation, by Months, between Conceptions and Deaths—Table XXIV., . . 89
Relation, by Months, between Conceptions and Deaths; Deaths and Births from which Conceptions are Estimated, Corrected and Equalized—Table XXV., 90
Importance of Studying the Question of Sex of Children in connection with some other period of time than by Months, ... 90
Remarks Referring to Exhibits Q and R, and Tables XXII. to XXVIII. inclusive, 90–91
Relation, by Months, between the number of Deaths and the Proportion of each Sex Conceived; Deaths and Conceptions Corrected and Equalized—Table XXVI., ... 91
Relation Between the Number of Deaths and the Proportion of each Sex Conceived—Table XXVII., ... 92
For all Children, for Twins, Illegitimate, and Still-born, the Number of Boys to 100 Girls, Distinguishing by Parent-nativity, etc.—Table XXVIII., . . 93
Influence of Parent-nativity upon Sex of Children in 1870—Exhibit Q, . . 94
Remarks on Table XXVIII. and Exhibit Q, ... 94
Causes Tending to Increase the Birth-rate Tend also to Increase Proportion of Females, ... 95
Influence of War upon the Proportion of the Sexes Born, ... 95–96
Comments on Views of Dr. Emerson Concerning Sex of Children, ... 96–99
Influence of Cholera upon the Proportion of the Sexes Born, ... 96–99
Law of Proportion of the Sexes Born Enunciated by Dr. J. Stockton Hough, with Comments thereon, ... 99–100
Evidence of 138 Cases or 1,896,223 Births, Bearing upon Law of the Sexes, . . 100
Proportion of Sexes in Returns not Correct, and reasons why, ... 101–103
Proportion of Sexes at Birth, and the Relation which it bears to an Increased or Diminished Birth-rate as appears from Statistics for certain States and Cities—Exhibit R, ... 104–110
Number and Proportion of each Sex Born during each of the Years 1853 to 1872 Inclusive in the City of New York—Exhibit R, ... 104
Number and Proportion of each Sex Born in the City of Philadelphia during each of the Years 1820 to 1840 Inclusive—Exhibit R, ... 105
Number and Proportion of each Sex Born in the City of Philadelphia during each of the Years 1861 to 1873 Inclusive—Exhibit R, ... 106
Number and Proportion of each Sex Born in the City of Providence during each of the Years 1854 to 1872 Inclusive—Exhibit R, ... 106–107
Number and Proportion of each Sex Born in Vermont during each of the Years 1857 to 1870 Inclusive—Exhibit R, ... 107
Number and Proportion of Each Sex born in Massachusetts during each of the Years 1849 to 1853, Inclusive—Exhibit R, ... 107
Number and Proportion of Each Sex Born in Massachusetts during each of the Years 1865 to 1870, Inclusive—Exhibit R, ... 108
Number and Proportion of Each Sex Born in Rhode Island during each of the Years 1854 to 1872, Inclusive—Exhibit R, ... 108
Number and Proportion of Each Sex Born in Connecticut during each of the Years, 1849, 1850, 1854, and 1856 to 1871, Inclusive—Exhibit R, ... 109
Number and Proportion of Each Sex Born in Michigan during each of the Years 1868 to 1872, Inclusive—Exhibit R, ... 109

Digitized by Google

PAGE.
Males to 100 Females Born in England during each of the Years 1849 to 1854, Inclusive—Exhibit R, ... 110
Births in Certain Cities and States Previous to 1861, Stating Number and Proportion of Each Sex—Exhibit S, ... 110
Births in Certain Cities and States during 1861, Proportion of Males Born in that Year—Exhibit T, ... 111
Births in Certain Cities and States during 1862-5, Inclusive,—a Greater than Average Proportion of Males Born—Exhibit U, ... 111
Births in Certain Cities and States during the Years since 1865—Exhibit V, . 112
Births in Certain Cities and States for all the Years Specified for those Cities and States in Exhibit R—Exhibit W, ... 112

MARRIAGES:
Total Number of, during the Year, ... 113
Average Number of, for Specified Periods within the Year, ... 113
By Quarters of the Year, Number and Per Cent. of Total for 1868, 1869, 1870, and 1871, Corrected to May 1, 1873—Table I., ... 114
By Quarters of the Year, as Originally Returned, Number and Per Cent. of Total, for 1868, 1869, 1870, and 1871—Exhibit A, ... 114
By Months in Order, by Number for 1868, 1869, 1870, and 1871, Corrected to May 1, 1873—Table II., ... 115
By Months, as Corrected up to May 1, 1873, and as Equalized to Months of uniform length, for 1868, 1869, 1870 and 1871—Exhibit B, ... 116-117
Comments on Table II., Exhibit B, and Diagram No. 2, ... 118
Diagram No. 2, facing 118
For the State and Counties, by Months—Table III., ... 119-121
Remarks Relative to Color, ... 121
By Color, the Number and Per Cent. of Marriages, of Persons Married, and Per Cent. to Population—Table IV., ... 122
By Color, for the State and Counties—Table V., ... 123-125
By Sex, the Nativity, by Number and Per Cent., the Population in 1870, Represented by Marriages for 1871, and Per Cent. to Population of same Nativity —Table VI., ... 126
By Nativity, the Number and Per Cent. of Persons Married to Inhabitants aged 15 to 45 years, June 1, 1870—Exhibit C, ... 127
Comments on Table VI. and Exhibit C,—Nativity, ... 128
By Sex, the Number and Per Cent. of Persons Married at each period of age—Table VII., ... 129
By Sex and Periods of Age, the Population June 1, 1870, represented by Marriages in 1871—Table VII., ... 129
By Sex, the Per Cent. of Persons Married to Population of Same Age and Period of Age—Table VII., ... 129
By Sex, for the State and Counties, the Nativity and Age in Periods of Years—Table VIII., ... 130-135
By Sex, for the State and Counties, the Number Married, and the Number at Each Age, under 21 Years—Table IX., ... 136-139
Remarks Concerning Illegal Marriages, ... 140
Suggested Changes in the Law Concerning Solemnization of Marriages, . . . 140
Number of Each Sex Married at Each Period of Age, and the Manner of their Union, by Ages, in Periods of Years—Table X., ... 141
Comments on Table X., ... 141-142
Comments on Table XI., Unusual Ages, ... 142

Digitized by Google

PAGE.

Marriages with Great Disparity of Age, and Occupation of Bridegroom—Table XI., ... 143-144
For the State and Counties, for the Years 1868, 1869, 1870, and 1871, the Number as first Returned, and as Corrected to Nov. 1, 1871, and to May 1, 1872—Table XII., ... 145-149
For the State and by Counties, the Population June 1, 1870, Number of Inhabitants to one Marriage in 1871, and Per Cent. of Marriages to Population—Table XII., ... 145-149
Number of Inhabitants to one Marriage in Different Foreign Countries, the United States, and Certain States of the Union—Exhibit D, ... 150

DEATHS:

Number returned as having Occurred in 1871, ... 151
By Quarters of the Year, the Number and Per Cent. of Total for 1868, 1869, 1870, and 1871—Table I., ... 151
Remarks on Deaths for this and Preceding Years, and by Quarters of the Year, 151-152
Averages as returned Per Quarter, Month, Week, and Day, ... 152
Total and Average, which Probably Occurred during Specified Periods of Time, 153
By Months, in Order by Number, for 1868, 1869, 1870, and 1871—Table II., . . . 154
Remarks Relative to Mortality by Months, ... 154-155
By Sex, the Number and Per Cent. by Months—Table III., ... 155
By Months, the Total, and Number of each Sex, Equalized to Months of Uniform Length—Exhibit A, ... 156
By Sex, the Per Cent. of Deaths in each Month, and by Months, the Per Cent. of each Sex—Exhibit A, ... 156
Months in Order by Number of Deaths, in Massachusetts, Kentucky, Rhode Island, and Michigan—Exhibit B, ... 157
Months in Order, by Number of Deaths, greatest number first, for the Years 1869, 1870, and 1871; and for 1870 and 1871, Corrected for Omissions—Exhibit B, ... 157
Comparisons with Similar Statistics, Collected by Different Officers at Different Times, ... 158
Method for Correcting Omissions in Returns, ... 159
By Months, for 1869 and 1870, as Returned, as if Enumerated in Months of Occurrence, as Corrected, Equalized to Population at Close of Year, and as Corrected and Equalized, Equalized to Months of Uniform Length—Exhibit C, 160-161
By Months for the Years 1869 and 1870, as Returned, as if Enumerated in Months of Occurrence, as Corrected, Equalized to Population at Close of Year, and as Corrected and Equalized, Equalized to Months of Uniform Length—Exhibit D, ... 162
Diagram No. 3, facing 162
Diagram No. 4, facing 162
By Months, for 1869 and 1870, as Returned by Census Officers, as if Enumerated in Months of Occurrence, as Corrected, Equalized to Population at Close of Year, and as Corrected and Equalized, Equalized to Months of Uniform Length—Exhibit E, ... 163
By Months, for the Year 1870, as Returned by Registration Officers, as if Enumerated in Months of Occurrence, as Corrected, Equalized to Population at Close of Year, and as Corrected and Equalized, Equalized to Months of Uniform Length—Exhibit F, ... 164-166
By Months, as Returned, as Enumerated in Months of Occurrence, as Corrected, Equalized to Population at Close of Year, and as Corrected and Equalized to Months of Uniform Length, for 1871—Exhibit G, ... 167

Digitized by Google

PAGE.

By Sex, and by Age in Periods, the Number and Proportion of Persons Returned as having Died during the Year, also the Excess of Persons of Each Sex—Table IV., ... 168-169
By Sex, and by Age in Periods of Years, the Number Returned for each Month—Table V., ... 170-173
By Sex and by Months, the Number Returned at Each and Every Age—Table VI., ... 174-193
Life Table for Females, based upon the Death-rate for 1870.—Expectation of Life, etc.—Table VII., ... 194-197
Comments on Life Table and Method of its Construction, ... 198-200
Rules for Computing Average Years of Life and Expectation of Life, ... 200
Of Children under One Year of Age—By Sex, by Months, and by Age in Months, Month of Birth, and Whether Born in Year of Death or Previous Year—Table VIII., between Pages 200-201
Comments and Remarks on Table VIII.—Children Under One, ... 201-202
Details Concerning Centenarians—Table IX., ... 203
Counties and Townships from which No Returns were Received—Exhibit H, 204-206
Counties and Townships in which No Deaths Occurred—Exhibit I, ... 207
For the State and Counties, by Sex, for the Year and Months, and by Age in Periods of Years—Table X., ... 208-223
By Color, the Number and Per Cent. of Each Sex, and Males to 100 Females—Table XI., ... 223
By Color, by Sex, for the State and Counties—Table XII., ... 224-227
By Nativity, by Sex, for the State and Counties—Table XIII., ... 228-230

CAUSES OF DEATH:

Comments on Classification of Causes of Death, ... 231
Number and Per Cent. from All Causes, and from each Class of Causes, 1869, 1870, and 1871—Table XIV., ... 231
Geographical Divisions of the State, Counties in each Division, etc.—Exhibit J, 232
By Geographical Divisions, the Population June 1, 1870, and Number and Per Cent. of Deaths for each Division in 1871—Table XV., ... 233
By Geographical Divisions, the Per Cent. of Deaths in 1871 to Population in 1870; also, the Per Cent. of Deaths from each Class of Causes—Table XV., . 233
Comments on Table XV., by Geographical Divisions, ... 233
For the State and Counties, by Causes Classified—Table XVI., ... 234-269
By Specified Causes, by Sex, by Months, and by Ages in Periods of Years; also, by Sex and by Specified Causes for the Years 1869 and 1870—Table XVII., 270-303
Fifteen Principal Causes of Death in Order by Number, Greatest first—Table XVIII., ... 304
Comments on Table XVIII., Fifteen Principal Causes of Death, ... 304-305
Consumption and Scarlet Fever, ... 305
Ten Specified Causes, by Months, by Age in periods of Years, and by Sex—Table XIX., ... 306
Ten Specified Causes, Per Cent., by Sex, by Months, and by Ages—Table XX., 307
Comments on Tables XIX. and XX., ... 307-309
Cancer, Cephalitis, and Croup, ... 308
Diphtheria, ... 309
Croup, by Months, with Certain Meteorological Conditions—Exhibit K., . 310-311
Croup and Diphtheria, by Months, with some Meteorological Conditions—Exhibit L., ... 312

Digitized by Google

PAGE.
Diphtheria, by Months, with some Meteorological Conditions—Exhibit M, . . 313
Diarrhea—Remarks Upon, ... 314
Diarrhea and Dysentery, Number and Per Cent. of Deaths, by Geographical Divisions—Table XXI., ... 315
Remarks Concerning Dysentery, ... 315
Measles and Scarlatina, ... 316
Typhoid Fever, Whooping Cough, and Casualties, ... 317
Consumption, ... 318-319
Consumption, by Sex, and by Months Equalized to Uniform Length; also Average Number per Month—Exhibit N, ... 318
Correlation of Consumption and Pneumonia, by Months, by Sex—Table XXII., ... 319-320
Consumption, by Months, with some Meteorological Conditions—Exhibit O, . 321
Pneumonia, by Months, with some Meteorological Conditions—Exhibit P, . 322
Correlation of Consumption and Pneumonia, by Ages in Periods of Years, by Sex—Table XXIII., ... 323-324
By Sex, and by Geographical Divisions, Deaths from All Causes, and from Consumption, Pneumonia and Typhoid Fever—Table XXIV., ... 325-326
For the State and Counties, Deaths from All Causes, and from Consumption, Pneumonia, and Typhoid Fever—Table XXV., ... 327-329
By Sex, and by Geographical Divisions, Deaths at All Ages, from Old Age, of all Aged 70 and Over, and of all Aged Under 5—Table XXVI., ... 330-331
For the State and by Counties, the Average Age of Inhabitants of each Sex, Deaths at All Ages, from Old Age, of all Aged 70 and Over, and of all Aged Under 5—Table XXVII., ... 332-334
From Consumption, by Sex, by Months, and by Ages, in Periods of Years, the Conjugal Condition and Occupation of All who Died—Table XXVIII., . 335-350
Average Age of Dead and Living by Census of 1870, and by Registration Returns for 1870 and 1871—Exhibit Q, ... 351
Rule for Obtaining the Average Age, ... 351
Occupation of those who Died, and the Aggregate and Average Years of Life in each Occupation—Table XXIX., ... 352-359
Remarks on Table XXIX. Relative to Occupations, ... 359
Meteorological Conditions for 1871—Mean Hight and Range of Barometer, Direction of Prevailing Winds, Relative Humidity, etc.—Table XXX., . . . 360
Acknowledgment to Smithsonian Institution, State Board of Agriculture, Prof. R. C. Kedzie, of Agricultural College, J. M. Blakely, and J. W. Paxton, of Alpena, for Meteorological Tables, ... 361
Meteorological Conditions for 1871—Mean Temperature, the Highest and Lowest Temperature, the Monthly Range, etc.—Table XXXI., ... 361
Meteorological Conditions for 1871—Mean Temperature, the Highest and Lowest Temperature, Days of Prevailing Winds, etc.—Table XXXII., . . . 362-363
Laws Concerning the Solemnization of Marriages, ... 365
Act to Provide for the Registration of Births, Marriages and Deaths, . . . 367

ERRATUM.

In the last three columns of Exhibit M., page 61, the decimal points should be one figure further to the right, making the per cent. read ten times larger in each instance; and in foot-note *a* read *excludes* instead of *includes*.

Digitized by Google

FIFTH REGISTRATION REPORT.

GENERAL REMARKS AND STATEMENTS.

In the Introduction to the last Report, over the signature of the Secretary of State, certain suggestions were made pointing out how the law might be so amended as to make provisions for obtaining very much better and more complete statistics than it is possible to collect as the law now stands. Some of those recommendations have been acted upon, and have become the law of the State. In accordance with certain other of those suggestions, some of the friends of progress in this matter drew up a bill for the amendment of the law, and the bill received the recommendation of the Committee on Public Health in the Legislature of 1873; but for lack of sufficient explanation, or for some reason, it failed to become a law. The reasons why the law should be amended are as strong now as when suggested in last Report. The statistics are gradually becoming more accurate, but in some particulars the law providing for their collection may be improved, and attention is again respectfully called to the following suggestions:

Under the present system of enumerating births and deaths after the year in which they occurred has passed, a large number are overlooked. If, therefore, the births and deaths were recorded soon after their occurrence, as marriages are, the value of these statistics would be very much enhanced. This end might be secured by making it the duty of every person acting as physician or midwife, or in any way having charge of births or deaths, to furnish for record with the township clerk or supervisor a written statement of all the facts connected there-

Digitized by Google

with required by law, or by making it the duty of parents or eldest person next of kin to record births and deaths immediately after their occurrence, as is required by law in the State of Massachusetts, and as is also the case in England. These methods of recording, supplemented by the present method of collecting, would probably result in the enumeration of many births and deaths now overlooked, and in greater accuracy concerning all collected.

Society at large has an interest in these statistics, over and above any personal interest of the few who record them, and the people of the State, therefore, should pay for their collection; no expense for recording them should be borne by persons placing them upon record.

The age at last birthday of parents of children born is an important item, and would add materially to the facilities for studying this subject. The age of persons married should be stated as at last birth-day; it is not definitely stated under the present law. The facts concerning each person married, as to whether it is the first or which subsequent marriage, should also be stated.

Another important item is the nativity of parents of all who die, since it bears upon the question of relative vigor and stamina of the children of native and foreign parents. This would enable us to determine the truth or falsity of the charges that the native Americans are not self-supporting, but dependent upon the larger birth-rate of the foreign element to maintain the population.

The occupation of fathers of children who die should be obtained for those below a certain specified age, say fifteen years.

The law should provide that county clerks return to the State Department the Christian Names of children born and previously returned before such names have been given them. The most prompt of the county clerks now make such returns, but the law does not make distinct provision therefor. Compensation might be the same as for any similar return.

Digitized by Google

In computing the per cent. showing the relation between the population and the births, marriages, and deaths in this Report, the compiler has used the population as shown by the census of 1870; and he has availed himself of the opportunities for correction afforded by a comparison of the Census and Registration Report of 1870.

As is well known, the general management and tabulation of these statistics require a certain amount of technical knowledge, and this is particularly true as regards the statistics of deaths, wherein a knowledge of professional nomenclature is essential, and a good system of classification of causes of death desirable. Heretofore, the law provided that the Secretary of State could have "such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in the State for that purpose." This left the matter in a very indefinite and uncertain condition, and, as a matter of fact, no committee was appointed to supervise the work of this Report by either of the bodies of medical men mentioned in the law.

Since the last Report was published, but after considerable work had been done upon the statistics in this Report, a law has been passed making more permanent provision for professional supervision of the vital statistics of this State.

The law referred to (Act No. 81, Laws of 1873) provides for the establishment of a State Board of Health, whose members are appointed by the Governor and confirmed by the Senate. This Board elects a Secretary, whose duties are specified in the law, but who is also required to act as Medical Superintendent of the Vital Statistics. Section 10 of said law being as follows:

SECTION 10. The Secretary of the State Board of Health shall be the Superintendent of Vital Statistics. Under the general direction of the Secretary of State, he shall collect these statistics, and prepare and publish the report required by law relating to births, marriages, and deaths.

Having been elected Secretary of the State Board of Health, the undersigned assumed the duties of Superintendent of Vital

Digitized by Google

Statistics, on the first day of August, 1873. The work on this report had then, and has since, been delayed for more reasons than one: the returns from a few of the County Clerks were behind time; the previous report having been delayed by the great amount of statistical labor demanded of the office in compiling and publishing the "Statistics of Michigan, 1870," —compiled from the U. S. Census,—work upon the Report for 1871 could not be commenced as soon as otherwise; the labor necessarily involved in performing the duties of Secretary of the State Board of Health has not left so much time for the supervision of this work as would allow the compiler to rapidly complete his part of the labor; and finally, this Report was delayed because the complicated nature of the work, extra care in proof-reading, etc., cause books of this character to be slow work in printers' hands.

After all, the main value of such statistics is not in their immediate application to business affairs for a few days, weeks, or months only, but in those general principles which are only reached through long series of observations extending through many years, and then it depends upon their accuracy, which is better secured by prolonged than by hasty labor. Life tables are of great pecuniary importance to the people, inasmuch as the Life Insurance business is based upon them, but no Life Insurance Company would trust or venture their capital on the mortality experience of a single year in a single locality, and what is true in this particular of this one item of Vital Statistics is true of other items.

The hope of the compiler is that the Vital Statistics of Michigan for 1871 may form good reliable links in the chains of evidence relative to sources of danger to life and health, as well as to business connected with the death-rate, and that the work may eventually prove useful to the people of Michigan, and to humanity in general.

HENRY B. BAKER, M. D.,
Supt. of Vital Statistics.

Digitized by Google

BIRTHS, MARRIAGES, AND DEATHS.

FOR THE YEAR 1871.

This Report is based upon the returns of births, marriages, and deaths, made to the State Department by the clerks of the several counties in the State, the original enumeration of births and deaths being made by the supervisors and assessors of townships and cities, except in Detroit, where it is done by persons appointed by the Common Council; the returns of marriages to the county clerk are made by ministers of the Gospel and justices of the peace who solemnize marriages.

Inasmuch as the practical working of the system of record and return has not yet become perfect for either births, marriages, or deaths, exact mathematical accuracy cannot be claimed for the numbers which represent these three important facts for this State during the year 1871. In nearly all cases the compiler has been careful to use such terms as would convey the idea that the numbers represent the births, marriages, and deaths *returned*, and not the actual numbers which *occurred*. A method of correction has been devised, however, which is believed to render it possible to approximate the actual number of births and deaths, and in some of the tables and exhibits this correction has been made and specified.

The relation which the births, marriages, and deaths returned for the year 1871 bear to those for previous years may be seen by examining Exhibit A, which also exhibits the rela-

Digitized by Google

tion which the births, marriages, and deaths sustain to each other in each of the years for which a record has been made in this State.

EXHIBIT A.—*Births, Marriages, and Deaths, returned as having occurred in Michigan, for the Years 1868, 1869, 1870, and 1871.*

	1868.	1869.	1870.	1871.
Marriages*	8,635	10,284	9,643	10,181
Births	25,020	27,093	26,663	25,992
Deaths	8,235	9,145	10,766	9,728
Excess of Births over Deaths	16,785	17,948	15,897	16,264

* Corrected up to May 1, 1873.

TABLE I.—*The Number of Marriages, Births, and Deaths, and Excess of Births over Deaths in the State of Michigan during the Year, and the Average Number and Excess during Specified Periods of Time within the Year 1871.*

PERIODS OF TIME.	Marriages.	Births.	Deaths.	Excess of Births over Deaths.
Year 1871	10,181.00	25,992.00	9,728.00	16,264.00
Quarter	2,545.25	6,498.00	2,432.00	4,066.00
Month	848.41	2,166.00	810.66	1,355.34
Week	195.78	499.84	187.07	312.77
Day	27.89	71.21	26.65	44.56

Digitized by Google

EXHIBIT B.—*Statements concerning Births, Marriages, and Deaths in Michigan, during the Years 1870 and 1871.*

	1870 [a]	1871 [b]
Inhabitants represented by returns of marriages to one marriage [c]	122.11	115.57
In population represented by marriages, males to one marriage	63.71	60.31
In population represented by marriages, females to one marriage	58.40	55.27
Male inhabitants at ages at which marriages occurred to one marriage	37.63	37.96
Female inhabitants at ages at which marriages occurred to one marriage	38.34	37.63
Inhabitants represented by births to each child born	43.43	40.29
Inhabitants, males to each male child born	48.59	43.97
Inhabitants, females to each female child born	43.57	44.57
Inhabitants, females aged 16 to 45 to each child born	9.35	9.51
Children born to 100 females aged 16 to 45	10.68	10.52
Inhabitants represented by deaths to one death	107.13	117.54
Inhabitants, males to one death of male	107.48	114.75
Inhabitants, females to one death of female	107.50	121.67
Deaths, males to 100 females	108.78	115.17
Births, males to 100 females	108.80	110.21
Total population of State, males to 100 females	109.22	109.22
Births to one death	2.47	2.67
Births, males to one death of male	2.47	2.62
Births, females to one death of female	2.47	2.74
Children born of which the sex was unknown or not stated	91.00	69.00
Deaths of which the sex was unknown or not stated	37.00	35.00

[a] Marriages corrected up to May 1, 1873.
[b] In computing statements for this column, the inhabitants June 1, 1870, were used.
[c] See page 150.

Digitized by Google

TABLE II.—*Exhibiting, by Sex, the Population June 1, 1870, the Number of Marriages, Births, and Deaths, and the excess of Births over Deaths in Michigan during the Year 1871.*

STATE AND COUNTIES.	Population June 1, 1870.			Marriages, 1871.	Births, 1871.				Deaths, 1871.				Excess of Births over Deaths.[a]			
	Total.	Sex.			Total.	Sex.			Total.	Sex.			Total.	Sex.		
		Males.	Females.			Males.	Females.	Unknown.		Males.	Females.	Unknown.		Males.	Females.	Unknown.
State	1,184,282	618,251	566,031	10,181	25,992	13,596	12,327	69	9,728	5,190	4,503	35	16,264	8,406	7,824	34
Alconá[b]	766	441	325	3	23	16	7	.....	5	4	1	.....	18	12	6	....
Allegan[c]	32,105	17,000	15,105	215	621	307	313	1	278	143	132	3	343	164	181	-2
Alpena	2,756	1,719	1,037	26	37	22	15	.....	13	10	3	.....	24	12	12	....
Antrim	1,985	1,118	867	18	46	26	20	.....	10	8	2	.....	36	18	18	....
Barry	22,200	11,646	10,554	156	443	216	225	2	164	85	79	.....	279	131	146	2
Bay[d]	15,900	8,914	6,986	118	466	252	212	2	209	120	88	1	257	132	124	1
Benzie[e]	2,184	1,168	1,016	17	67	33	34	.....	18	8	10	.....	49	25	24	....
Berrien	35,104	18,063	17,041	377	559	292	266	1	274	147	125	2	285	145	141	-1
Branch	26,227	13,248	12,979	263	413	225	188	.....	174	102	72	.....	239	123	116	....
Calhoun	36,571	18,550	18,021	270	700	371	327	2	327	172	151	4	373	199	176	-2
Cass[f]	21,096	10,938	10,158	199	341	168	171	2	135	69	66	.....	206	99	105	2

Digitized by Google

Charlevoix.....[g]	1,724	941	783	18	58	22	31	.....	16	7	9	.....	37	15	22	....
Cheboygan.....	2,197	1,235	962	21	48	26	22	.....	12	7	5	.....	36	19	17	....
Chippewa.....[h]	1,690	930	760	11	25	13	12	.....	23	9	14	.....	2	4	-2	....
Clare.....[i]	366	285	81	13	25	16	9	.....	9	5	4	.....	16	11	5	....
Clinton.....	22,851	11,813	11,038	168	559	279	278	2	171	71	100	.....	388	208	178	2
Delta.....[j]	2,441	1,486	955	15	93	50	43	.....	23	11	12	.....	70	39	31	....
Eaton.....	25,168	12,949	12,214	225	508	277	231	.....	210	98	112	.....	298	179	119	....
Emmet.....	1,211	629	582	14	46	23	23	.....	47	30	17	.....	-1	-7	6	....
Genesee.....	33,895	17,449	16,446	254	577	285	292	.....	207	102	105	.....	370	183	187	....
Grand Traverse...[k]	4,443	2,389	2,054	33	112	53	59	.....	25	13	12	.....	87	40	47	....
Gratiot.....	11,808	6,189	5,619	110	265	134	131	.....	79	40	39	.....	186	94	92	....
Hillsdale.....	31,688	16,104	15,584	322	575	286	289	.....	286	133	153	.....	289	153	136	....
Houghton.....[l]	13,882	7,745	6,137	90	399	207	192	.....	110	73	37	.....	289	134	155	....
Huron.....[m]	9,048	5,036	4,012	63	281	146	135	.....	106	59	47	.....	175	87	88	....
Ingham.....[n]	25,268	13,096	12,172	235	567	285	282	.....	192	103	88	1	375	182	194	-1

[a] The figures with the minus sign placed before them indicate the excess of deaths over births.

[b] Includes population of Oscoda county. No returns of deaths from township of Alcona.

[c] No returns of deaths from townships of Clyde and Manlius.

[d] No returns of births or deaths from township of Bangor.

[e] No returns of deaths from townships of Benzonia, Colfax, Platte, and Weldon. No returns of births or deaths from township of Inland.

[f] No returns of births or deaths from township of La Grange.

[g] No returns of births from township of Evangeline, and no returns of births or deaths from township of Norwood.

[h] No returns of births from township of Sugar Island.

[i] No returns of births or deaths from township of Surry, and no returns of deaths from township of Winterfield. No returns of births from township of Winfield.

[j] No returns of births from townships of Delta and Masonville. No returns of deaths from townships of Masonville, Nahma, and Winona.

[k] No returns of deaths from township of Mayfield.

[l] No returns of births or deaths from townships of Hancock and Portage.

[m] No returns of deaths from townships of Bingham, Coltax, Meade, and Verona, and no returns of births or deaths from township of White Rock.

[n] No returns of births from township of Onondaga.

Digitized by Google

TABLE II.—Continued.

Counties.	Population June 1, 1870.			Marriages, 1871.	Births, 1871.				Deaths, 1871.				Excess of Births over Deaths. *			
	Total.	Sex. Males.	Sex. Females.		Total.	Sex. Males.	Sex. Females.	Sex. Unknown.	Total.	Sex. Males.	Sex. Females.	Sex. Unknown.	Total.	Sex. Males.	Sex. Females.	Sex. Unknown.
Ionia [b]	27,675	14,452	13,223	249	535	283	249	3	225	127	97	1	310	156	152	2
Iosco [c]	3,175	1,913	1,262	44	55	31	24	.....	23	14	9	.....	32	17	15	....
Isabella [d]	4,113	2,211	1,902	33	139	69	70	.....	51	25	26	.....	88	44	44	....
Jackson	36,040	19,056	16,984	307	686	364	321	1	235	134	101	.....	451	230	220	1
Kalamazoo	32,065	16,522	15,543	300	519	292	225	2	248	129	117	2	271	163	108	....
Kalkaska [e]	424	244	180	3	28	16	12	.....	3	2	1	.....	25	14	11	....
Kent	50,410	26,166	24,244	489	1,025	546	475	4	419	218	198	3	606	328	277	1
Keweenaw [f]	4,206	2,327	1,879	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
Lake	548	305	243	*	46	23	23	.....	5	2	3	.....	41	21	20	....
Lapeer	21,342	11,051	10,291	155	469	241	228	.....	125	69	55	1	344	172	173	-1
Leelanaw [g]	4,577	2,401	2,176	43	137	73	64	.....	55	21	34	.....	82	52	30	....
Lenawee	45,601	22,916	22,685	419	758	425	326	2	331	157	174	.....	422	268	152	2
Livingston	19,335	10,072	9,263	139	324	184	139	1	125	67	58	.....	199	117	81	1

Digitized by Google

Mackinac.....[h]	1,715	905	810	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
Macomb	27,619	14,096	13,523	228	682	317	312	3	249	129	116	4	388	188	196	-1
Manistee .....[i]	6,074	3,458	2,616	85	149	72	73	4	35	21	14	.....	114	51	59	4
Manitou.....[j]	891	488	403	4	5	3	2	.....	2	1	1	.....	3	2	1	....
Marquette.....	14,278	8,485	5,793	145	624	348	276	.....	154	87	67	.....	470	261	209	....
Mason .....[k]	3,266	1,814	1,452	36	63	31	30	2	22	13	9	.....	41	18	21	2
Mecosta.....[l]	5,645	3,061	2,584	62	150	75	75	.....	46	27	19	.....	104	48	56	....
Menominee.....[m]	1,895	1,266	629	8	5	1	4	.....	3	1	2	.....	2	0	2	....
Midland .....[n]	3,283	1,813	1,470	25	92	52	40	.....	38	20	18	.....	54	32	22	....
Missaukee .....[o]	130	76	54	1	6	4	2	.....	.....	.....	.....	.....	6	4	2	....
Monroe.....	27,475	13,950	13,525	206	618	319	298	1	202	113	89	.....	416	206	209	1
Montcalm.....[p]	13,641	7,284	6,357	125	313	184	129	.....	121	60	61	.....	192	124	68	....
Muskegon .....[q]	14,892	8,402	6,490	129	342	167	175	.....	136	76	60	.....	206	91	115	....

[a] The figures with the minus sign placed before them indicate the excess of deaths over births.
[b] No returns of births or deaths from township of Otisco.
[c] Includes population of Ogemaw county. No returns of deaths from township of Tawas.
[d] No returns of deaths from township of Lincoln, and no returns of births or deaths from township of Sherman.
[e] No returns of deaths from township of Springfield.
[f] No returns of births, marriages, or deaths.
[g] No returns of deaths from township of Solon.
[h] No returns of births, marriages, or deaths.
[i] No returns of deaths from township of Springdale, and no returns of births or deaths from township of Morilla.
[j] No returns of deaths from townships of Chandler and Galilee.
[k] No returns of deaths from township of Branch, and no returns of births or deaths from townships of Hamlin and Pere Marquette.
[l] No returns of births or deaths from township of Mecosta.
[m] No returns of deaths from township of Ingallston, and no returns of births or deaths from township of Menominee.
[n] No returns of births from townships of Gladwin, Jasper, and Grout, and no returns of deaths from townships of Grout, Jasper, Lincoln, Mt. Hayley, and Porter.
[o] No deaths.
[p] No returns of deaths from townships of Ferris and Richland. No returns of births from townships of Home and Ferris.
[q] No returns of births from 1st Ward of Muskegon City, and no returns of births or deaths from township of Egleston.
* No returns of marriages.

Digitized by Google

TABLE II.—Continued.

Counties.	Population June 1, 1870.			Marriages, 1871.	Births, 1871.				Deaths, 1871.				Excess of Births over Deaths. a			
	Total.	Sex. Males.	Sex. Females.		Total.	Sex. Males.	Sex. Females.	Sex. Unknown.	Total.	Sex. Males.	Sex. Females.	Sex. Unknown.	Total.	Sex. Males.	Sex. Females.	Sex. Unknown.
Newaygo b	7,292	3,910	3,382	66	185	68	65	2	29	17	11	1	106	51	54	1
Oakland	40,906	21,185	19,771	334	564	287	277	.....	265	139	126	.....	299	148	151	....
Oceana c	7,222	3,948	3,274	60	181	95	85	1	70	38	31	1	111	57	54	....
Ontonagon	2,846	1,430	1,416	6	75	41	34	.....	18	11	7	.....	57	30	27	....
Osceola d	2,104	1,167	937	31	95	52	42	1	26	17	9	.....	69	35	33	1
Ottawa e	26,650	14,050	12,600	202	707	351	346	10	206	117	89	.....	501	234	257	10
Presque Isle	355	229	126	*	10	4	6	.....	7	5	2	.....	3	-1	4	....
Saginaw f	39,098	21,064	18,034	382	1,024	530	493	1	336	184	152	.....	688	346	341	1
Sanilac g	14,565	7,722	6,843	96	327	175	149	3	73	25	48	.....	254	150	101	3
Schoolcraft h	799	519	280	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
Shiawassee	20,822	10,815	10,007	146	460	228	231	1	155	85	70	.....	305	143	161	1
St Clair	36,759	19,011	17,748	304	945	501	443	1	334	177	153	4	611	324	290	-3
St. Joseph	26,272	13,480	12,792	309	417	216	201	.....	175	79	96	.....	242	137	105	....
Tuscola i	13,715	7,263	6,452	111	352	182	170	.....	81	48	33	.....	271	134	137	....

Digitized by Google

Van Buren	28,885	14,907	13,928	221	592	298	297	2	232	116	116	.....	360	177	181	2
Washtenaw [j]	41,440	21,478	19,962	300	782	392	334	6	297	172	124	1	435	220	210	5
Wayne [k]	119,068	59,964	59,104	1,111	3,799	2,025	1,768	6	1,444	817	621	6	2,355	1,208	1,147	....
Wexford [l]	650	344	306	8	18	6	7	.....	4	1	3	.....	9	5	4	....

[a] The figures with the minus sign placed before them indicate the excess of deaths over births.

[b] No returns of deaths from townships of Beaver, Big Prairie, Everett, Norwich, and Sheridan, and no returns of births or deaths from townships of Bridgeton and Denver.

[c] No returns of deaths from township of Newfield.

[d] No returns of deaths from townships of Burdell, Middle Branch, and Rose Lake.

[e] No returns of deaths from township of Allendale.

[f] No returns of births or deaths from township of St. Charles.

[g] No returns of deaths from townships of Argyle, Buel, Flynn, Lamotte, Sanilac, Washington, and Watertown, and no returns of births or deaths from townships of Delaware, Elmer, and Moore.

[h] No returns of births, marriages, or deaths.

[i] No returns of deaths from townships of Ellington, Millington, and Novesta.

[j] No returns of deaths from township of Lyndon.

[k] No returns of births from townships of Brownstown, Taylor, and Van Buren, and no returns of births or deaths from the township of Monguagon.

[l] No returns of deaths from township of Selma, and no returns of births or deaths from townships of Colfax and Henderson.

* No returns of marriages.

Digitized by Google

Digitized by Google

BIRTHS.

The total number of births returned as having occurred in the State of Michigan during the year 1871 was 25,992.[a]

Of the births returned, the average number during specified periods of time was as follows:[a]

Average number of children per quarter	6,498.00
Average number of children per month	2,166.00
Average number of children per week	499.84
Average number of children per day	71.21

The actual number and per cent. of births returned as having occurred in each quarter of the year, is shown in Table I., which also exhibits the same for each of the three preceding years:

TABLE I.

Births by Quarters of the Year, exhibiting the Number and Per Cent. of Totals for the Years 1868, 1869, 1870, and 1871, according to the Returns.

TOTALS AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.	
	Number.	Per cent. of total.	Number.	Per cent. of total.	Number.	Per cent. of total.	Number.	Per cent. of total.
Totals	25,020	100.00	27,098	100.00	26,663	100.00	25,992	100.00
March	5,501	21.98	5,415	19.98	5,440	20.40	5,412	20.82
June	[b] 5,909	23.61	6,848	23.43	6,491	24.34	5,843	22.48
September	6,924	27.67	7,888	29.09	7,500	28.12	7,225	27.79
December	6,628	26.49	7,381	27.24	7,100	26.62	7,446	28.64
Unknown	[b] 58	.23	66	.24	132	.49	66	.25
Average[c]	6,255	25.00	6,774	25.00	6,665	25.00	6,498	25.00

[a] See page 5.
[b] See notes to month of April and Unknown in Table II.
[c] The number in unknown quarter of year included.

Digitized by Google

TABLE II.—*Births during the Years 1868, 1869, 1870, and 1871, according to the Returns, exhibiting the Number and Per Cent. of Total, by Months, arranged in order by Number, Months having the greatest number first.*

Order.	1868.			1869.			1870.			1871.		
	Months.	Number.	Per cent. of total.	Months.	Number.	Per cent. of total.	Months.	Number.	Per cent. of total.	Months.	Number.	Per cent. of total.
	Total	25,020	100.00	Total	27,098	100.00	Total	26,668	100.00	Total	25,992	100.00
1	August	2,399	9.58	August	2,731	10.08	September	2,602	9.75	December	2,639	10.15
2	September	2,362	9.44	September	2,681	9.89	August	2,559	9.59	August	2,536	9.75
3	December	2,283	9.12	December	2,512	9.27	October	2,480	9.30	September	2,518	9.68
4	October	2,246	8.97	October	2,508	9.22	December	2,387	8.95	October	2,478	9.53
5	July	2,163	8.64	July	2,471	9.12	July	2,339	8.77	November	2,329	8.96
6	November	2,099	8.38	November	2,361	8.71	May	2,275	8.53	July	2,171	8.35
7	March	2,043	8.16	May	2,221	8.19	November	2,233	8.37	May	2,046	7.87
8	May	2,037	8.10	June	2,085	7.69	June	2,140	8.02	March	1,987	7.64
9	June	1,944	7.76	April	2,042	7.53	March	2,099	7.87	April	1,899	7.30
10	April [a]	1,928	7.70	March	2,005	7.40	April	2,076	7.78	June	1,898	7.30
11	February	1,759	7.03	February	1,752	6.46	February	1,737	6.51	January	1,737	6.68
12	January	1,699	6.79	January	1,658	6.11	January	1,604	6.01	February	1,688	6.49
	Unknown [b]	58	.23	Unknown	66	.24	Unknown	132	.49	Unknown	66	.25
	Average	2,085	8.33	Average	2,257.75	8.33	Average	2,221.91	8.33	Average	2,166	8.33

[a] The number of births in April, 1868, as published in the Second Registration Report, was 1,607; but this number only represented twenty-five days. Thirty days, at the same rate, would give the number stated in this table.

[b] This number was obtained by adding three-twelfths of the number of births in unknown months, stated in the First Registration Report, to the whole number stated in the second Report, which was for the remaining nine months of the year 1868.

Digitized by Google

According to the returns, the order of greatest number of births by quarters of the year was not quite the same in 1871 as in preceding years, the greatest number being reported for the fourth quarter, instead of the third as heretofore in this State and as has also usually been the case in Massachusetts.

In the Fourth Registration Report, it was remarked that so far as records had been collected it appeared that in any given section of country the proportion of births in each part of the year was nearly the same in every year, but different at different seasons of the year, and apparently directly or indirectly controlled by the seasons. Taking the statistics as they stood, it appeared from Table III., in that report, "that the uniform proportion of births by seasons is in a majority of months influenced by the number of marriages;" and that the marriage rate was not the only cause acting, but that both the marriage and the birth rate seemed to be influenced by some cause directly connected with climate and season of the year. It was further remarked, however, on page 8, that "unless there is some deficiency in the collection of these statistics in this State which acts regularly in the same manner each year, the exceptions shown by Table III. in the months of January, February, March, August, and September, seem to show that in some months the birth-rate is greater or less, notwithstanding the influence of the marriage-rate in a contrary direction at the time the conceptions occur." A disturbing influence due to some regularly acting cause of deficient collection of the births at certain seasons of the year was suspected, and search for this cause revealed its nature. An elaborate series of computations and comparisons of the statistics of births as returned by the registration officers and by the census marshals was undertaken, and published in the "Statistics of Michigan, 1870." From these researches "It appears probable, then, that under the circumstances attending the collection of births in Michigan by the supervisors, a delay of one year before enumerating births results in omissions to such an

Digitized by Google

extent that 72.36 per cent. of the number enumerated must be added to them in order to make the number equal that which it would have been if enumerated one year sooner." Under the present law the births for January are not enumerated by the supervisors until about sixteen months after they occur; the births for February after the lapse of about fifteen months; for March after fourteen months; for April, thirteen; for May, twelve; for June, eleven; for July, ten; for August, nine; for September, eight: for October, seven; for November, six; and for December five months. The evidence seems to be that the omissions are in proportion to the time elapsing before enumeration, so that as this time is different for every month of the year, the disturbance is different in degree for every month, being greatest for January, and growing less each month thereafter; but in no month is it probable that every birth which occurs is enumerated. The total number omitted from the returns is very great. From careful computations and estimates made by comparing statistics from different sources, it is believed to have amounted to an average, during the year ending June 1st, 1870, of 63.61 per cent. of the number returned. If we apply this rule for estimating from the number returned the number of births which occurred, and conclude that the census year furnished a fair sample of enumeration, we find that instead of 25,992 there may have been 42,526 children born in Michigan during the year 1871; and instead of the averages exhibited on page 1, some others may be much nearer the truth.

But, although the omissions in enumerating the births for the census year ending June 1st, 1870, were such that 63.61 per cent. had to be added to make the true number, it is quite possible, and even probable, that as the registration system becomes more fully understood the omissions will be less each year until a minimum is reached. If we apply to the births for the year 1871 the same method of correction that was applied to the births for the census year, we find evidence con-

Digitized by Google

firming this view; for it then appears that the omissions in enumerating the births for 1871 were only such that about 51.23 per cent. should be added for omissions because of the lapse of one year's time, or about 44.83 per cent., on an average, to the whole number as they were returned. Practically, owing to the dropping of fractions, the average per cent. added for the year 1871 in Table III. is 42.86.

According to Exhibit A, in this report, then, the most probable number of births during the year 1871 was 37,038, and the averages during specified periods of time were as follows:

Average number of births per quarter	9,259.50
Average number of births per month	3,086.50
Average number of births per week	712.26
Average number of births per day	101.47

Digitized by Google

EXHIBIT A.—*Births in Michigan during the Year 1871, as Returned, as Corrected for Omissions in Enumerating, the same Equalized for Increase of Population during the Year covered by the Returns, and the Births, as thus corrected and equalized for the several Months, Equalized for Months of a uniform length of 30.44 Days; also, indicating some of the steps by which these results have been reached. (Stillbirths and Children of unknown Sex included.)*

	Total.	1871.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers	25,926	1,737	1,688	1,987	1,899	2,046	1,898	2,171	2,586	2,518	2,478	2,329	2,689
Per cent. of births to be added for correction for time elapsing before enumeration	.....	68.32	64.05	59.78	55.51	51.24	46.97	42.70	38.43	34.16	29.89	25.62	21.35
Number of births to be added for above correction	11,112	1,187	1,081	1,188	1,054	1,048	891	927	975	860	741	597	568
Births, if enumerated in months of occurrence	37,038	2,924	2,769	3,175	2,953	3,094	2,789	3,098	3,511	3,378	3,219	2,926	3,202
Per cent. of births to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year	831	123	107	111	98	87	69	65	62	48	34	21	11
Births, as corrected, equalized to population at close of year	37,869	3,047	2,876	3,286	3,046	3,181	2,858	3,163	3,573	3,426	3,253	2,947	3,213
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the births should be increased or diminished to equalize them to months of uniform length	+21	-55	+251	-59	+45	-57	+42	-57	-65	+50	-59	+43	-58
Births corrected and equalized, equalized to months of uniform length	37,890	2,992	3,127	3,227	3,091	3,124	2,900	3,106	3,508	3,476	3,194	2,990	3,155

Digitized by Google

EXHIBIT B.—*Births of Males in Michigan during the Year 1871, as Returned, as Corrected for Omissions in enumerating; the same equalized for Increase of Population during the Year covered by the Returns; and the Births, as thus corrected and equalized for the several Months, equalized for Months of 30.44 days each.*

	Total.	Year 1871.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers	13,567	988	864	1,049	955	1,061	998	1,124	1,327	1,289	1,291	1,262	1,414
Per cent. of births to be added for correction for time elapsing before enumeration	.....	60.97	57.16	53.35	49.54	45.73	41.92	38.11	34.30	30.49	26.68	22.87	19.06
Number of births to be added for above correction	5,179	572	494	560	473	485	416	428	455	393	344	289	270
Births, if enumerated in months of occurrence	18,746	1,510	1,358	1,609	1,428	1,546	1,409	1,552	1,782	1,682	1,635	1,551	1,684
Per cent. of births to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year	417	64	52	56	45	43	35	33	31	24	17	11	6
Births, as corrected, equalized to population at close of year	19,163	1,574	1,410	1,665	1,473	1,589	1,444	1,585	1,813	1,706	1,652	1,562	1,690
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number of births added or subtracted to equalize them to months of uniform length	+4	-28	+123	-30	+22	-29	+21	-29	-33	+25	-30	+23	-31
Births corrected and equalized, equalized to months of uniform length	19,167	1,546	1,533	1,635	1,495	1,560	1,465	1,556	1,780	1,731	1,622	1,585	1,659

Digitized by Google

EXHIBIT A.—*Births in Michigan during the Year 1871, as Returned, as Corrected for Omissions in Enumerating, the same Equalized for Increase of Population during the Year covered by the Returns, and the Births, as thus corrected and equalized for the several Months, Equalized for Months of a uniform length of 30.44 Days; also, indicating some of the steps by which these results have been reached. (Stillbirths and Children of unknown Sex included.)*

	Total.	1871.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers	25,926	1,737	1,688	1,987	1,899	2,046	1,898	2,171	2,586	2,518	2,478	2,329	2,639
Per cent. of births to be added for correction for time elapsing before enumeration	.....	68.32	64.05	59.78	55.51	51.24	46.97	42.70	38.43	34.16	29.89	25.62	21.35
Number of births to be added for above correction	11,112	1,187	1,081	1,188	1,054	1,048	891	927	975	860	741	597	568
Births, if enumerated in months of occurrence	37,038	2,924	2,769	3,175	2,953	3,094	2,789	3,098	3,511	3,378	3,219	2,926	3,202
Per cent. of births to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year	831	123	107	111	93	87	69	65	62	48	34	21	11
Births, as corrected, equalized to population at close of year	37,869	3,047	2,876	3,286	3,046	3,181	2,858	3,163	3,573	3,426	3,253	2,947	3,213
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the births should be increased or diminished to equalize them to months of uniform length	+21	-55	+251	-59	+45	-57	+42	-57	-65	+50	-59	+43	-58
Births corrected and equalized, equalized to months of uniform length	37,890	2,992	3,127	3,227	3,091	3,124	2,900	3,106	3,508	3,476	3,194	2,990	3,155

Digitized by Google

EXHIBIT B.—*Births of Males in Michigan during the Year 1871, as Returned, as Corrected for Omissions in enumerating; the same equalized for Increase of Population during the Year covered by the Returns; and the Births, as thus corrected and equalized for the several Months, equalized for Months of 30.44 days each.*

	Total.	Year 1871.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers	18,567	988	864	1,049	955	1,061	998	1,124	1,327	1,289	1,291	1,262	1,414
Per cent. of births to be added for correction for time elapsing before enumeration	.....	60.97	57.16	53.35	49.54	45.73	41.92	38.11	34.30	30.49	26.68	22.87	19.06
Number of births to be added for above correction	5,179	572	494	560	473	485	416	428	455	393	344	289	270
Births, if enumerated in months of occurrence	18,746	1,510	1,358	1,609	1,428	1,546	1,409	1,552	1,782	1,682	1,635	1,551	1,684
Per cent. of births to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year	417	64	52	56	45	43	35	33	31	24	17	11	6
Births, as corrected, equalized to population at close of year	19,163	1,574	1,410	1,665	1,473	1,589	1,444	1,585	1,813	1,706	1,652	1,562	1,690
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number of births added or subtracted to equalize them to months of uniform length	+4	-28	+123	-30	+22	-29	+21	-29	-33	+25	-30	+23	-31
Births corrected and equalized, equalized to months of uniform length	19,167	1,546	1,533	1,635	1,495	1,560	1,465	1,556	1,780	1,731	1,622	1,585	1,659

Digitized by Google

EXHIBIT C.—*Births of Females in Michigan during the Year 1871, as Returned; as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the Year covered by the Returns; and the Births, as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 days each.*

	Total.	Year 1871.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers	12,298	794	819	935	941	978	898	1,041	1,202	1,224	1,179	1,062	1,220
Per cent. of births to be added for correction for time elapsing before enumeration	.....	75.89	71.15	66.41	61.67	56.93	52.19	47.45	42.71	37.97	33.23	28.49	23.75
Number of births to be added for above correction	5,870	603	583	621	580	557	469	494	513	465	392	303	290
Births, if enumerated in months of occurrence	18,168	1,397	1,402	1,556	1,521	1,535	1,367	1,535	1,715	1,689	1,571	1,365	1,510
Per cent. of births to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year	411	59	54	55	48	43	34	32	30	24	17	10	5
Births, as corrected, equalized to population at close of year	18,574	1,456	1,456	1,611	1,569	1,578	1,401	1,567	1,745	1,713	1,588	1,375	1,515
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+ 2.44	-.56	+ .44	-.56	+ .44	-.56	-.56	+ .44	-.56	+ .44	-.56
Number of births added or subtracted to equalize them to months of uniform length	+ 16	- 26	+ 127	- 29	+ 23	- 29	+ 21	- 28	- 32	+ 25	- 29	+ 20	- 27
Births corrected and equalized, equalized to months of uniform length	18,590	1,430	1,583	1,582	1,592	1,549	1,422	1,539	1,713	1,738	1,559	1,395	1,488

Digitized by Google

EXHIBIT D.—*Births of Males and of Females in Michigan during the Year 1871, Corrected for Omissions in Enumerating, and, as thus Corrected, Equalized to Months of uniform length; also, the total Births of both Sexes as thus Corrected and Equalized. Births of Children of unknown Sex not included.*

	Total.	Year 1871.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births of males if enumerated in months of occurrence	18,746	1,510	1,358	1,609	1,428	1,546	1,409	1,552	1,782	1,682	1,635	1,551	1,684
Days and hundredths by which the months should be increased or diminished to equalize the months to a uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number of births added or subtracted to equalize the months to a uniform length	+4	+27	+118	-29	+21	-28	+21	-28	-32	+25	-30	+23	-30
Births of males corrected to months of uniform length	18,750	1,483	1,476	1,580	1,449	1,518	1,430	1,524	1,750	1,707	1,605	1,574	1,654
Births of females if enumerated in months of occurrence	18,163	1,397	1,402	1,556	1,521	1,585	1,367	1,585	1,715	1,689	1,571	1,365	1,510
Days and hundredths by which the months should be increased or diminished to equalize the months to a uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number of births added or subtracted to equalize the months to a uniform length	+14	-25	+122	-28	+22	-28	+20	-28	-31	+25	-28	+20	-27
Births of females corrected and equalized to months of uniform length	18,177	1,372	1,524	1,528	1,543	1,507	1,387	1,507	1,684	1,714	1,543	1,385	1,483
Births of males corrected and equalized to months of uniform length	18,750	1,483	1,476	1,580	1,449	1,518	1,430	1,524	1,750	1,707	1,605	1,574	1,654
Births corrected and equalized to months of uniform length (excluding unknown sex)	36,927	2,855	3,000	3,108	2,992	3,025	2,817	3,031	3,434	3,421	3,148	2,959	3,137

Digitized by Google

In the preceding exhibits, the "Per cent. of births added for correction for omissions because of time elapsing before enumeration," was obtained by the following described methods. For Exhibit A the method was as follows:

BIRTHS.

Census.				Registration.		
Dec., 1869	:	Jan., 1870.		Dec., 1870.	:	Jan., 1871.
3,003	:	3,305	::	2,387	:	x

x is found to equal 2,627. The number of births actually returned for January, 1871, was 1,737. The length of time between the occurrence of the births in Dec., 1870, and their enumeration was four months; of the births for January, 1871, it was sixteen months; the difference between December and January in this respect was one year. The omissions in enumerating births for January are supposed to have equaled the difference between the number enumerated by registration officers and the number which would have been counted if the relation between the months had been the same as it was shown to be by the census, when the births for both months were enumerated at the same time. 2,627—1,737=890 which is 51.23+ per cent. of the number returned. If a delay of one year causes omissions requiring an increase of 51.24 per cent. of births returned, then the births in May, which were collected in the following May, should be and are increased by that per cent.; the births in June, by eleven-twelfths of that per cent., and so on for the following months. The months preceding, being collected at the same time, should be increased by a larger per cent., proportioned to the length of time elapsing between occurrence and enumération.

For Exhibit B the proportion is found as follows:

BIRTHS OF MALES.

Census.				Registration.		
Dec., 1869	:	Jan., 1870.		Dec., 1870	:	Jan., 1871.
1,518	:	1,734	::	1,197	:	x

x is found to equal 1,367. 1,367—1,197=429, which is 45.73

Digitized by Google

per cent. of 1,197,—the number returned. If the births of males must be increased 45.73 per cent. for the lapse of one year before enumeration, they are to be increased correspondingly for other periods of time, and thus the line of per cent. is obtained for the several months.

For Exhibit C the proportion is as follows:

BIRTHS OF FEMALES.

Census.				Registration.		
Dec., 1869	:	Jan., 1870.		Dec., 1870	:	Jan., 1871.
1,485	:	1,571	::	1,178	:	x

x is found to equal 1,246. The number of births actually returned for January, 1871, was 794. 1,242—794=452, which is 56.93 per cent. of the number returned.

The increase of population between the years 1860 and 1870 was such as would be accounted for by an annual increase of 4.69 per cent. of the population at the beginning of the year. The births enumerated were those in the average population during the year 1871, or, if the increase is uniform by months, the population at the middle of the year. To equalize the births for the several months to the number which at the same rate would have occurred in a population equaling that existing at the close of the year, they should be increased by one-half of the annual increase, or 2.28+ per cent. on an average, and the births for January should be increased by a per cent. twelve times as great as the births for December; for February, eleven times; for March, ten times, etc. The line of "per cent. of births added to equalize them to population at close of year" is thus obtained.

When the births are to be compared by months with the marriages as returned, as they are in Table III. and in Exhibit E, they should not be equalized to a uniform population. Exhibit D differs from Exhibit A in not being so equalized, and in not including children of unknown sex.

As will be seen from the foregoing, there is reason for believ-

Digitized by Google

ing that the true proportion of births in the different months is quite different from that which appears in tables constructed directly from the returns without first making corrections. This is an unfortunate result of an imperfection in the law providing for the registration and return of births and deaths, to which attention was called in the last Report. A more perfect record is secured in some other localities by requiring physicians, parents, and householders to cause a record of every birth and death which occurs under their care or in their household, to be filed with some proper officer within a certain specified time. If the law in this State could be amended so that it would contain a similar provision, the value of these statistics would be materially increased.

For purposes of research into numerous interesting questions connected with the proportion of births by months it is important that the correct proportion be known. The preceding exhibits and remarks constitute the first attempt in the Registration Reports to exhibit the methods and results of systematic corrections for omissions in enumeration, and for increase of population during the year covered by the returns. These two corrections are based upon evidence derived from comparison of these statistics with those of the U. S. Census of 1870; and so far as related to the year ending June 1st, 1870, the subject was illustrated by diagrams and discussed at some length on pages lxviii to lxxxvii, "Statistics of Michigan, 1870," to which the reader is respectfully referred for a more complete discussion of the subject so far as relates to births. The subject may come up again in connection with the study of the sex of children, and further on something more may be said concerning its relations to deaths.

For some purposes of research it is not essential that all the births be enumerated. If only a fair sample of the whole be collected, that is all that is essential to gain the knowledge sought so far as regards sex, color, nativity of parents, etc. Such returns are also valuable as regards the matter of record

Digitized by Google

for legal purposes, although they would be much more valuable if every birth was returned. The number and per cent. of births in the population in the different counties must be compared as returned, for, even if not returned in the same degree of completeness, there is as yet no way known by which they may be corrected. Throughout this Report, therefore, the tables of births are, as a rule, made up directly from the returns.

TABLE III. — *Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1871, and the Marriages solemnized in the Months of the Years 1870 and 1871 in which the conceptions probably occurred. (Births in unknown Month, of Children of unknown Sex, and Marriages in unknown Month excluded.)*

Births for 1871, Equalized to Months of 30.44 Days Each, in Order by Number,—greatest first.				No of Marriages from April, 1870, to March, 1871, equalized to months of 30.44 days each.
Births.		Conceptions.		
Year and Months.	Number.	Months.	Year.	
Year	25,853			9,198
December	2,586	March	1871	788
September	2,550	December	1870	862
August	2,483	November	1870	868
October	2,426	January	1871	885
November	2,359	February	1871	838
Average	2,154			766
July	2,126	October [a]	1870	812
May	2,002	August	1870	574
March	1,948	June	1870	594
April	1,924	July	1870	760
June	1,919	September	1870	724
February	1,829	May	1870	747
January	1,701	April	1870	746

[a] Exception to statement that *less* than an average number of conceptions for births appear for months in which *less* than an average number of marriages were solemnized. There were no exceptions to the statement that *more* than an average number of conceptions appear opposite months in which *more* than an average number of marriages were solemnized.

Digitized by Google

EXHIBIT E.—*The Relation between the Births in Michigan during the Year 1871 Corrected for Omissions in Enumerating, and the Marriages solemnized in the Months of the Years 1870 and 1871 in which the Conceptions probably occurred. (Births in unknown Month, of Children of unknown Sex, and Marriages in unknown Month excluded.)*

Births for 1871, Corrected as if Enumerated in Months of Occurrence, Equalized to Months of Uniform Length, in Order by Number,—Greatest First.				No. of Marriages from April, 1870, to March, 1871, equalized to Months of 30.44 days each.
Births.		Conceptions.		
Year and Months.	Number.	Months.	Year.	
Year	36,927			9,198
August	3,434	November	1870	868
September	3,421	December	1870	862
October	3,148	January	1871	835
December	3,137	March	1871	788
March	3,108	June [a]	1870	594
Average	3,077			766
July	3,081	October [a]	1870	812
May	3,025	August	1870	574
February	3,000	May	1870	747
April	2,992	July	1870	760
November	2,959	February [a]	1871	838
January	2,855	April	1870	746
June	2,817	September	1870	724

[a] Exceptions to statement that *more* than an average number of conceptions appear for months in which *more* than an average number of marriages were solemnized and *less* than an average number of conceptions in months in which *less* than an average number of marriages were solemnized.

Table III. exhibits the relations between births returned and the marriages returned as solemnized in the months in which the conceptions probably occurred. The table is similar to one in last Report, in which it appeared that there were five exceptions to the statement that more than an average number of marriages were solemnized in months having more than an average number of conceptions, and less than an average number

Digitized by Google

of marriages in months in which less than an average number of conceptions occurred.

Exhibit E is concerning the same relation as Table III., except that in the exhibit the births are corrected, by a method shown in the preceding exhibits, for omissions resulting from time elapsing before enumeration. This correction seems to be necessary for this purpose, for, if some births are omitted in enumerations for some months and the marriages are collected for all months equally, then any comparison between the births and marriages will be unsatisfactory until the births are corrected. It will be seen that for the year 1871 there are less exceptions to the statement in the foot-note to Table III. than there are in the same statement in Exhibit E, in which the births have been corrected; but in the exhibit the statement holds true in nine out of twelve months.

Digitized by Google

TABLE IV.—*Exhibiting, by Counties and by Sex, the Number of Children Returned as having been born in Michigan during the Year, and in each Month of the Year ending December 31, 1871 (Stillbirths included).*

STATE AND COUNTIES.	SEX.	YEAR 1871.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Unknown.
State	Total	25,992	1,737	1,688	1,987	1,899	2,046	1,898	2,171	2,536	2,518	2,478	2,329	2,639	66
	Males	18,596	938	864	1,049	955	1,061	993	1,124	1,327	1,289	1,291	1,262	1,414	29
	Females	12,327	794	819	935	941	978	898	1,041	1,202	1,224	1,179	1,062	1,220	34
	Unknown	69	5	5	3	3	7	7	6	7	5	8	5	5	3
	Excess of Males	1,269	144	45	114	14	83	95	83	125	65	112	200	194	-5
Alcona	Total	23	2	1	1	2	4	3	.....	2	2	3	1	2	.....
	Males	16	1	1	.....	2	3	3	.....	1	2	1	1	1	.....
	Females	7	1	.....	1	.....	1	.....	.....	1	.....	2	.....	1	.....
Allegan	Total	621	45	36	39	57	37	40	42	64	69	66	59	67	.....
	Males	307	20	15	18	27	18	21	22	35	34	27	28	42	.....
	Females	313	25	21	21	30	18	19	20	29	35	39	31	25	.....
	Unknown	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....

Digitized by Google

Alpena	Total	37	1	5	4	2	6	2	3	2	1	5	2	4	.....
	Males	22	.....	3	2	1	3	1	2	2	.....	3	1	4	.....
	Females	15	1	2	2	1	3	1	1	.....	1	2	1	.....	.....
Antrim	Total	46	6	6	2	1	6	2	5	5	5	1	2	5	.....
	Males	26	5	4	1	1	3	2	1	2	2	1	2	2	.....
	Females	20	1	2	1	.....	3	.....	4	3	3	.....	.....	3	.....
Barry	Total	443	26	21	36	38	36	26	38	46	41	49	44	42	.....
	Males	216	14	8	20	16	13	12	20	21	18	22	27	25	.....
	Females	225	12	13	16	22	23	14	18	24	23	26	17	17	.....
	Unknown	2	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....
Bay [a]	Total	466	47	38	35	33	38	30	43	24	39	36	30	67	6
	Males	252	23	17	17	15	22	14	27	14	24	18	18	41	2
	Females	212	24	21	18	17	16	16	16	10	15	18	11	26	4
	Unknown	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....
Benzie [b]	Total	67	8	3	4	8	5	4	6	7	5	3	1	11	2
	Males	33	3	1	1	4	2	2	4	2	3	2	.....	8	1
	Females	34	5	2	3	4	3	2	2	5	2	1	1	3	1
Berrien	Total	559	40	25	49	41	51	38	35	56	50	65	51	58	.....
	Males	292	16	10	30	28	30	22	23	30	14	27	26	36	.....
	Females	266	24	15	19	13	21	16	12	26	35	38	25	22	.....
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....

[a] No returns from township of Bangor. [b] No returns from township of Inland.

Digitized by Google

TABLE IV.—CONTINUED.—*Births in Michigan by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR 1871.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Unknown.
Branch	Total	413	24	28	25	38	31	19	29	54	46	36	38	49	1
	Males	225	13	21	12	18	15	7	16	32	21	24	24	21	1
	Females	188	11	7	13	15	16	12	13	22	25	12	14	28	.....
Calhoun	Total	700	40	47	52	53	53	53	75	67	68	68	68	61	.....
	Males	371	22	16	30	23	34	30	40	36	38	34	31	37	.....
	Females	327	18	31	22	30	19	23	34	30	25	34	37	24	.....
	Unknown	2	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....
Cass [a]	Total	341	18	28	32	21	21	26	22	42	29	42	31	29	.....
	Males	168	11	13	13	13	11	11	11	23	13	16	14	14	.....
	Females	171	7	15	19	8	10	15	11	18	10	26	17	15	.....
	Unknown	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
Charlevoix [b]	Total	53	1	2	3	4	4	3	6	6	6	1	7	10	.....
	Males	22	1	.....	2	2	3	2	1	4	3	.....	1	3	.....
	Females	31	.....	2	1	2	1	1	5	2	3	1	6	7	.....

Digitized by Google

Cheboygan	Total	48	7	------	8	1	2	2	3	2	5	10	1	7	------
	Males	26	3	------	6	------	1	1	3	2	2	6	------	2	------
	Females	22	4	------	2	1	1	1	------	------	3	4	1	5	------
Chippewa [c]	Total	25	4	2	4	7	4	1	------	------	1	------	2	------	------
	Males	13	1	2	3	4	2	------	------	------	1	------	------	------	------
	Females	12	3	------	1	3	2	1	------	------	------	------	2	------	------
Clare [d]	Total	25	3	2	1	2	1	1	3	------	2	------	4	6	------
	Males	16	1	2	1	------	1	------	2	------	2	------	4	3	------
	Females	9	2	------	------	2	------	1	1	------	------	------	------	3	------
Clinton	Total	559	32	36	48	42	46	62	40	55	58	43	57	40	------
	Males	279	14	15	28	22	23	31	15	27	29	20	33	22	------
	Females	278	18	20	20	20	23	31	25	28	29	23	24	17	------
	Unknown	2	------	1	------	------	------	------	------	------	------	------	------	1	------
Delta [e]	Total	93	10	6	6	5	7	8	8	5	8	9	11	10	------
	Males	50	6	3	3	1	5	5	2	5	2	4	6	8	------
	Females	43	4	3	3	4	2	3	6	------	6	5	5	2	------
Eaton	Total	508	36	38	38	37	42	24	40	44	60	59	36	53	1
	Males	277	22	23	17	14	17	12	28	26	31	31	23	32	1
	Females	231	14	15	21	23	25	12	12	18	29	28	13	21	------

[a] No returns from township of LaGrange.
[b] No returns from townships of Evangeline and Norwood.
[c] No returns from township of Sugar Island.
[d] No returns from townships of Surrey and Winfield.
[e] No returns from townships of Fairbanks and Masonville.

Digitized by Google

TABLE IV.—CONTINUED.—*Births in Michigan by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR 1871.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Unknown.
Emmet	Total	46	6	2	8	3	3	5	5	2	2	3	3	4	------
	Males	23	2	2	3	1	1	4	2	1	2	2	3	------	------
	Females	23	4	------	5	2	2	1	3	1	------	1	------	4	------
Genesee	Total	577	33	20	36	43	55	52	52	69	52	53	59	53	------
	Males	285	20	9	18	24	27	29	26	29	25	26	26	26	------
	Females	292	13	11	18	19	28	23	26	40	27	27	33	27	------
Grand Traverse	Total	112	6	9	7	10	11	9	7	8	8	12	6	18	1
	Males	53	4	5	3	4	6	5	2	5	3	6	3	7	------
	Females	59	2	4	4	6	5	4	5	3	5	6	3	11	1
Gratiot	Total	265	11	15	24	14	10	19	19	36	34	33	20	30	------
	Males	134	6	5	14	5	7	5	8	26	21	11	9	17	------
	Females	131	5	10	10	9	3	14	11	10	13	22	11	13	------
Hillsdale	Total	575	31	40	41	37	45	34	48	61	54	49	59	75	1
	Males	286	19	21	19	18	17	18	28	29	27	23	27	40	------
	Females	289	12	19	22	19	28	16	20	32	27	26	32	35	1

Digitized by Google

Houghton [a]	Total	399	7	16	24	27	28	61	38	41	28	35	37	57	------
	Males	207	2	9	18	10	15	33	22	16	18	19	19	31	------
	Females	192	5	7	6	17	13	28	16	25	15	16	18	26	------
Huron [b]	Total	281	21	17	25	24	34	14	23	27	21	27	31	17	------
	Males	146	13	7	14	10	12	11	11	15	11	14	20	8	------
	Females	135	8	10	11	14	22	3	12	12	10	13	11	9	------
Ingham [c]	Total	567	34	37	42	43	43	49	44	59	77	51	47	41	------
	Males	285	20	16	22	17	20	18	21	37	37	28	26	23	------
	Females	282	14	21	20	26	23	31	23	22	40	23	21	18	------
Ionia [d]	Total	535	37	36	45	34	47	39	62	55	51	41	42	46	------
	Males	283	21	19	27	23	25	25	31	26	19	19	21	27	------
	Females	249	16	17	18	11	20	14	31	29	32	22	21	18	------
	Unknown	3	------	------	------	------	2	------	------	------	------	------	------	1	------
Iosco	Total	55	3	5	3	4	8	6	5	5	4	5	4	3	------
	Males	31	3	3	3	3	4	4	1	4	2	3	------	1	------
	Females	24	------	2	------	1	4	2	4	1	2	2	4	2	------
Isabella [e]	Total	189	9	13	16	10	7	6	19	15	11	16	6	11	------
	Males	69	6	6	10	2	5	2	10	9	4	5	3	7	------
	Females	70	3	7	6	8	2	4	9	6	7	11	3	4	------

[a] No returns from townships of Hancock and Portage.
[b] No returns from township of White Rock.
[c] No returns from township of Onondaga.
[d] No returns from township of Otisco.
[e] No returns from township of Sherman.

Digitized by Google

TABLE IV.—CONTINUED.—*Births in Michigan by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR 1871.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Unknown.
Jackson	Total	686	41	44	55	44	55	59	55	81	67	58	65	62	.....
	Males	364	26	21	25	21	32	26	32	45	39	27	40	30	.....
	Females	321	15	23	30	23	23	32	23	36	28	31	25	32	.....
	Unknown	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Kalamazoo	Total	519	35	38	38	39	44	39	47	59	43	44	41	52	.....
	Males	292	15	22	23	19	24	27	29	33	20	20	29	31	.....
	Females	225	20	15	15	20	20	12	18	26	23	23	12	21	.....
	Unknown	2	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Kalkaska	Total	28	4	.....	9	1	2	.....	2	5	1	1	.....	3	.....
	Males	16	2	.....	6	.....	1	.....	1	3	1	1	.....	1	.....
	Females	12	2	.....	3	1	1	.....	1	2	.....	.....	.....	2	.....
Kent	Total	1,025	66	64	70	64	62	70	98	95	100	98	112	123	3
	Males	546	28	36	39	41	30	33	49	47	58	55	60	67	3
	Females	475	33	28	30	23	32	37	48	48	42	43	52	54	.....
	Unknown	4	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	2	.....

Digitized by Google

Keweenaw[a]		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake	Total	46	1	4	1	4	5	4	2	7	5	5	4	4	.....
	Males	23	.....	2	.....	2	4	.....	1	5	3	1	3	2	.....
	Females	23	1	2	1	2	1	4	1	2	2	4	1	2	.....
Lapeer	Total	469	23	29	28	31	39	32	48	45	50	54	43	47	.....
	Males	241	11	11	17	15	21	14	26	23	26	31	23	23	.....
	Females	228	12	18	11	16	18	18	22	22	24	23	20	24	.....
Leelanaw	Total	137	12	9	13	16	12	8	9	11	14	10	9	14	.....
	Males	73	9	1	8	7	7	3	7	5	8	7	4	7	.....
	Females	64	3	8	5	9	5	5	2	6	6	3	5	7	.....
Lenawee	Total	753	29	50	44	44	61	61	77	80	86	60	80	81	.....
	Males	425	17	23	25	31	25	42	42	43	50	30	51	46	.....
	Females	326	12	27	19	13	36	19	35	37	35	30	28	35	.....
	Unknown	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
Livingston	Total	324	21	17	16	23	22	23	30	41	35	33	24	39	.....
	Males	184	14	14	8	12	10	11	13	25	20	22	12	23	.....
	Females	139	7	2	8	11	12	12	17	16	15	11	12	16	.....
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mackinac[a]		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[a] No returns.

Digitized by Google

TABLE IV.—CONTINUED.—*Births in Michigan by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR 1871.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Unknown.
Macomb	Total	632	37	47	68	53	59	46	47	60	62	60	43	52	3
	Males	317	20	23	34	24	33	25	24	30	26	30	22	24	2
	Females	312	17	23	29	29	26	21	23	30	36	29	20	28	1
	Unknown	3	.....	1	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
Manistee	Total	149	9	5	7	12	13	13	12	12	10	23	12	20	1
	Males	72	4	2	5	5	12	4	4	3	5	9	7	12	.....
	Females	73	5	3	2	7	1	8	8	8	5	13	5	8	.....
	Unknown	4	.....	.....	.....	.....	.....	1	.....	1	.....	1	.....	.....	1
Manitou	Total	5	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	2	.....
	Males	3	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	1	.....
	Females	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Marquette	Total	624	55	48	62	48	58	36	37	38	48	55	52	87	.....
	Males	348	31	23	39	29	32	21	18	24	22	32	32	45	.....
	Females	276	24	25	23	19	26	15	19	14	26	23	20	42	.....

Digitized by Google

Mason [b]	Total	68	3	4	4	9	5	4	6	2	9	6	4	7	------
	Males	31	3	2	2	7	1	1	1	------	3	4	3	4	------
	Females	30	------	2	2	2	3	3	5	1	6	2	1	3	------
	Unknown	2	------	------	------	------	1	------	------	1	------	------	------	------	------
Mecosta [c]	Total	150	6	8	15	14	11	11	18	8	19	13	8	15	4
	Males	75	4	5	4	7	5	3	8	3	12	9	4	9	2
	Females	75	2	3	11	7	6	8	10	5	7	4	4	6	2
Menominee [d]	Total	5	------	------	1	------	------	1	------	1	------	------	1	1	------
	Males	1	------	------	1	------	------	------	------	------	------	------	------	------	------
	Females	4	------	------	------	------	------	1	------	1	------	------	1	1	------
Midland [e]	Total	92	6	8	5	10	11	5	11	8	7	7	8	6	------
	Males	52	2	4	2	5	7	2	6	5	3	5	6	5	------
	Females	40	4	4	3	5	4	3	5	3	4	2	2	1	------
Missaukee	Total	6	------	1	1	------	------	1	------	------	1	1	------	1	------
	Males	4	------	------	1	------	------	------	------	------	1	1	------	1	------
	Females	2	------	1	------	------	------	1	------	------	------	------	------	------	------
Monroe	Total	618	35	54	42	54	50	37	46	68	58	57	54	68	------
	Males	319	22	26	18	27	28	21	21	27	28	35	32	34	------
	Females	298	13	28	24	27	22	16	24	36	30	22	22	34	------
	Unknown	1	------	------	------	------	------	------	1	------	------	------	------	------	------

[a] No returns from township of Morilla.
[b] No returns from townships of Hamlin and Pere Marquette.
[c] No returns from township of Mecosta.
[d] No returns from township of Menominee.
[e] No returns from townships of Gladwin, Grant, and Jassper.

Digitized by Google

TABLE IV.—CONTINUED.—*Births in Michigan by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR 1871.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Unknown.
Montcalm [a]	Total	313	20	19	31	27	23	22	23	18	33	33	27	32	------
	Males	184	10	11	11	18	17	11	12	14	23	23	12	17	------
	Females	129	10	8	20	9	6	11	11	4	10	10	15	15	------
Muskegon [b]	Total	342	21	28	25	37	27	17	31	23	32	29	35	37	------
	Males	167	11	16	10	14	17	7	14	8	14	12	23	21	------
	Females	175	10	12	15	23	10	10	17	15	18	17	12	16	------
Newaygo [c]	Total	135	3	8	6	11	9	9	21	13	8	19	17	10	1
	Males	68	1	4	4	7	4	5	10	9	2	9	10	3	------
	Females	65	2	4	2	4	5	4	10	4	6	10	6	7	1
	Unknown	2	------	------	------	------	------	------	1	------	------	------	1	------	------
Oakland	Total	564	42	46	36	46	48	46	42	61	45	53	54	45	------
	Males	287	24	21	22	18	23	23	20	29	22	31	31	23	------
	Females	277	18	25	14	28	25	23	22	32	23	22	23	22	------

Digitized by Google

Oceana	Total	181	13	10	16	15	8	14	19	22	13	17	14	13	------
	Males	95	9	3	10	8	3	6	11	11	8	9	7	10	------
	Females	85	4	7	7	7	5	8	8	11	5	8	7	8	------
	Unknown	1	------	------	1	------	------	------	------	------	------	------	------	------	------
Ontonagon	Total	75	6	7	6	6	5	4	4	5	7	10	10	5	------
	Males	41	4	4	3	3	2	4	3	2	2	6	3	5	------
	Females	34	2	3	3	3	3	------	1	3	5	4	7	------	------
Osceola	Total	95	10	8	8	2	8	11	11	5	3	9	10	9	1
	Males	52	6	5	4	------	4	7	7	2	2	6	4	5	------
	Females	42	4	3	4	2	4	4	4	3	1	3	6	3	1
	Unknown	1	------	------	------	------	------	------	------	------	------	------	------	1	------
Ottawa	Total	707	49	40	39	68	45	42	74	56	76	78	59	85	1
	Males	351	21	15	20	34	24	22	38	27	42	36	36	36	------
	Females	346	24	25	18	33	21	19	36	29	34	35	22	49	1
	Unknown	10	4	------	1	1	------	1	------	------	------	2	1	------	------
Presque Isle	Total	10	2	1	1	------	------	------	------	4	------	1	1	------	------
	Males	4	------	1	------	------	------	------	------	2	------	------	1	------	------
	Females	6	2	------	1	------	------	------	------	2	------	1	------	------	------

[a] No returns from townships of Ferris and Home.
[b] No returns from township of Eggleston and first ward of Muskegon city.
[c] No returns from townships of Bridegton and Denver.

Digitized by Google

TABLE IV.—CONTINUED.—*Births in Michigan by Counties, by Months, and by Sex.*

COUNTIES.	SEX.	YEAR 1871.	MONTHS. January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Unknown.
Saginaw [a]	Total	1,044	64	63	90	72	87	77	85	105	95	96	77	110	3
	Males	530	37	34	45	36	49	48	48	50	46	47	30	59	1
	Females	498	27	28	45	36	38	29	37	55	49	49	47	51	2
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sanilac [b]	Total	327	21	23	30	16	29	23	28	43	38	29	24	23	.....
	Males	175	14	14	20	5	15	10	14	27	20	15	11	10	.....
	Females	149	7	9	10	11	13	13	13	16	18	13	13	13	.....
	Unknown	3	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.....
Schoolcraft [c]		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shiawassee	Total	460	36	20	29	31	32	42	37	52	50	47	48	36	.....
	Males	228	18	10	15	13	13	27	14	24	32	20	25	17	.....
	Females	231	18	10	14	18	19	14	23	28	18	27	23	19	.....
	Unknown	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
St. Clair	Total	945	49	63	82	65	68	79	70	92	106	88	87	95	.....
	Males	501	27	37	45	35	31	46	33	52	48	54	46	46	.....
	Females	443	22	26	37	30	37	33	37	40	57	34	41	49	.....
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....

Digitized by Google

St. Joseph	Total	417	42	28	25	35	31	27	26	51	51	40	28	33	------
	Males	216	20	15	12	18	16	11	14	27	26	20	20	17	------
	Females	201	22	13	13	17	15	16	12	24	25	20	8	16	------
Tuscola	Total	352	27	20	36	22	40	21	36	33	34	27	19	37	------
	Males	182	20	12	17	11	19	10	13	19	19	13	8	21	------
	Females	170	7	8	19	11	21	11	23	14	15	14	11	16	------
Van Buren	Total	592	39	35	52	39	47	46	61	61	51	52	52	56	1
	Males	293	20	21	26	20	24	24	25	32	21	28	28	23	1
	Females	297	19	14	26	18	23	22	36	28	30	24	24	33	
	Unknown	2	------	------	------	1	------	------	------	1	------	------	------	------	------
Washtenaw	Total	732	48	39	45	55	66	51	43	65	91	72	79	76	2
	Males	392	27	21	23	28	38	22	24	32	50	38	45	44	------
	Females	334	20	18	22	27	26	27	19	33	40	34	34	32	2
	Unknown	6	1	------	------	------	2	2	------	------	1	------	------	------	------
Wayne [d]	Total	3,799	314	266	294	248	279	277	298	350	337	370	365	372	34
	Males	2,025	169	149	150	125	145	145	161	180	179	207	196	204	15
	Females	1,768	145	117	144	123	134	131	131	169	158	162	169	168	17
	Unknown	6	------	------	------	------	------	1	1	1	------	1	------	------	2
Wexford [e]	Total	13	------	------	1	1	------	1	2	2	1	2	3	------	------
	Males	6	------	------	------	1	------	1	2	------	------	1	1	------	------
	Females	7	------	------	1	------	------	------	------	2	1	1	2	------	------

[a] No returns from township of St. Charles.
[b] No returns from townships of Delaware, Elmer, and Moore.
[c] No returns,
[d] No returns from townships of Brownstown, Monguagon, Taylor, and Van Buren.
[e] No returns from townships of Colfax and Henderson.

Digitized by Google

From Table IV. it will be seen that what has been noticed as regards the total number of births in the State is also true of the births in most of the counties, viz.: the much greater number returned for the last months in the year, especially noticeable by comparing those for December with those for January. If this did not appear differently when the births are collected at another season of the year, we might naturally conclude that there were really many more births in December than in January; but as has been pointed out in Exhibits A—D, and remarks relating thereto, the number returned in December is greater because the enumeration is more complete than for the first months in the year.

TABLE V.—*Exhibiting, by Color and by Sex, the Population of Michigan, June 1st, 1870, the Number of Children born in the State during the Year 1871, the Per Cent. of Children born in 1871 to Population in 1870, the Number of Women aged 18 to 45, the Per Cent. of Births to Women at such child-bearing ages, the Per Cent. of Children of each Sex to the Total Number born of both Sexes, and the Number of Inhabitants to each Child born of the same Color.* (*Still-births included.*)

COLOR OR RACE.	SEX.	Population June 1st, 1870, represented by births 1871.	Children born in 1871.	Per cent. of children to inhabitants.	Women, June 1, 1870, aged 18 and under 45 years.[a]	Per cent. of children to women aged 18 to 45.[b]	Per cent. of each sex to children of both sexes.	No. of inhabitants to one child born of the same color.
All Colors	Total	1,147,234	25,992	2.265	.....	11.272	.....	44.18
	Males	597,768	13,596	2.274	.....	.....	52.44	.....
	Females	549,466	12,327	2.243	230,590	.....	47.55	.....
	Unknown	.....	69	.....	.....	.....	.....	.....
White	Total	1,131,430	25,559	2.258	.....	11.243	.....	44.26
	Males	589,550	13,390	2.277	.....	.....	52.49	.....
	Females	541,880	12,115	2.235	227,331	.....	47.50	.....
	Unknown	.....	54	.....	.....	.....	.....	.....
Black	Total	5,359	186	3.470	.....	.....	.....	28.81
	Males	2,966	94	3.169	.....	.....	50.81	.....
	Females	2,393	91	3.802	.....	.....	49.18	.....
	Unknown	.....	1	.....	.....	.....	.....	.....

[a] No. ascertained from U. S. Census of 1870, Vital Statistics Volume, pp. 560 to 666.
[b] See page 33 of this Report.

Digitized by Google

TABLE V.—CONTINUED.

COLOR. OR RACE.	SEX.	Population June 1st, 1870, represented by births 1871.	Children born in 1871.	Per cent. of children to inhabitants.	Women, June 1, 1870, aged 18 and under 45 years.[a]	Per cent. of children to women aged 18 to 45.[b]	Per cent. of each sex to children of both sexes.	No. of inhabitants to one child born of the same color.
Mulatto	Total	6,145	33	.537	.....	.....	.....	186.21
	Males	3,106	20	.643	.....	.....	62.50	.....
	Females	3,039	12	.394	.....	.....	37.50	.....
	Unknown	.....	1	.....	.....	.....	.....	.....
Indians	Total	4,300	135	3.139	.....	14.469	.....	31.85
	Males	2,146	64	2.982	.....	.....	47.40	.....
	Females	2,154	71	3.296	933	.....	52.59	.....
Unkno'n colors	Total	.....	79	.....	.....	.....	.....	.....
	Males	.....	28	.....	.....	.....	.....	.....
	Females	.....	38	.....	.....	.....	.....	.....
	Unknown	.....	13	.....	.....	.....	.....	.....
Black and Mulatto[c]	Total	11,504	219	1.903	.....	9.415	.....	52.52
	Males	6,072	114	1.877	.....	.....	52.53	.....
	Females	5,432	103	1.896	2,826	.....	47.46	.....
	Unknown	.....	2	.....	.....	.....	.....	.....

[a] No. ascertained from U. S. Census of 1870, Vital Statistics Volume, pages 560 to 666.
[b] See page 33 of this Report.
[c] Includes all of African descent.

In Table V., for the purpose of obtaining the birth-rate of each race or color, the population June 1, 1870, is used, as it was in the last Report. In this table the study has been carried further than in the Report for 1870, and the evidence seems to be similar, namely: that the birth-rate of Indians is greater, and of persons of African descent it is less than among the white inhabitants, the per cent. of children to inhabitants being as follows:

For the aggregate of all colors it is..... 2.265
For the white race it is..... 2.258
For the Indians it is..... 3.139
For the African race it is..... 1.903

For the purpose of ascertaining whether or not this differ-

Digitized by Google

ence was due to a greater proportion of women at child-bearing ages among Indians and a less proportion among Africans than among the white inhabitants, two columns have been added to the table, giving the number of such women in Michigan and the per cent. of children to women at such ages. For facility of comparison, the per cent. may be re-arranged and stated as follows:

For all women the per cent. is	11.272
For the white women it is	11.243
For the Indian women it is	14.469
For the African women it is	9.415

In computing the per cent. of children to total inhabitants, only the population of counties and townships represented by returns of births was employed, and, as in computing the columns of per cent. of children to women aged 18 to 45 all such women in the State were necessarily counted, there is still a chance that in the localities from which no returns of births were returned, more than an average proportion of inhabitants of some one color were unrepresented. As bearing upon this subject, the relation of women in Michigan aged 18 to 45 to the females at all ages, has been computed for each color or race, and for the aggregate of all colors, and found to be as follows:

For all colors	40.74 per cent.
For the White race	40.72 per cent.
For the Indians	38.54 per cent.
For the Africans	41.12 per cent.

In order to render the evidence as perfect as possible, the whole number of females in the counties and townships not represented by returns of births has been ascertained, and the probable number of women aged 18 to 45 in such counties and townships has been found by the above series of proportions per cent. Subtracting the number so found from the whole number in the State exhibited in the fourth column of Table

Digitized by Google

V., and again computing the per cent. of children to women of child-bearing ages, the result is as follows:

Per cent. of all children to all women aged 18 to 45	11.612
Per cent. of White children to White women aged 18 to 45	11.579
Per cent. of Indian children to Indian women aged 18 to 45	16.091
Per cent. of African children to African women aged 18 to 45	9.626

From the best evidence attainable, it thus appears that in a given number of women of each race, many more children were born to Indian women than to white women, and a less number of children were born to women of African descent than to white women.

In Table V., in last Report, it appeared that the proportion of female or male children born, bore a certain relation to the large or small birth-rate,—that while the birth-rate among Indians was large there was also a larger proportion of female children than among the white inhabitants, and the reverse was true of the African race. This statement is true of the children born in 1871, as appears by the last column but one in Table V. This furnishes additional proof of the truth of the proposition, which it is believed was first broached in the Vital Statistics of Michigan, 1870, that an unusually large birth-rate is attended with a greater than average proportion of female children, while a diminished birth-rate is attended with a greater than average proportion of male children.

Digitized by Google

TABLE VI.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Population June 1st, 1870, the Per Cent. of Births in 1871 to Population in 1870, the Number of Males to 100 Females born during the Year 1871, and by Sex and Color the Number of Children born during the Year ending December 31, 1871.* (*Stillbirths included.*)

STATE AND COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
State[a]	110	Total	--------	1,147,284	2.26	25,992	25,559	186	33	185	79
		Males	52.44	597,768	2.27	13,596	13,390	[b] 94	20	[e] 64	28
		Females	47.55	549,466	2.24	12,327	12,115	[c] 91	12	[f] 71	38
		Unknown	--------	--------	------	69	54	[d] 1	1	----	13
Alcona	228	Total	100.00	[g] 766	3.00	23	23	----	--	----	--
		Males	69.56	441	3.62	16	16	----	--	----	--
		Females	30.43	325	2.15	7	7	----	--	----	--
Allegan	98	Total	--------	32,105	1.93	621	601	16	--	4	--
		Males	49.51	17,000	1.80	307	297	[h] 8	--	2	--
		Females	50.48	15,105	2.07	313	303	[i] 8	--	2	--
		Unknown	--------	--------	------	1	1	----	--	----	--
Alpena	146	Total	100.00	2,756	1.34	37	37	----	--	----	--
		Males	59.45	1,719	1.27	22	22	----	--	----	--
		Females	40.54	1,037	1.44	15	15	----	--	----	--
Antrim	180	Total	100.00	1,985	2.31	46	43	----	--	3	--
		Males	56.52	1,118	2.32	26	25	----	--	1	--
		Females	43.47	867	2.30	20	18	----	--	2	--
Barry	96	Total	--------	22,200	1.99	443	442	----	--	1	--
		Males	48.97	11,646	1.85	216	216	----	--	----	--
		Females	51.02	10,554	2.13	225	224	----	--	[j] 1	--
		Unknown	--------	--------	------	2	2	----	--	----	--

[a] For townships from which no returns of births were received see Table No. IV., of Births by Months; also Table XXI. [b] Includes "African," 3; "Negro," 7; and "Colored," 62. [c] Includes "African," 4; "Negro," 4; and "Colored," 54. [d] Includes "African," 1. [e] Includes "White and Indian," 1; "½ White," 1; "¾ White," 1; "Half-breed," 1; "Half," 1; and "Copper Colored," 3. [f] Includes "White and Indian," 2; "½ White," 1; and "Half," 5. [g] Includes population of Oscoda County. [h] "Colored," 8. [i] "Colored," 6. [j] "White and Indian," 1.

Digitized by Google

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Bay	118	Total	--------	12,294	3.79	466	458	1	--	7	--
		Males	54.31	6,876	3.66	252	249	[a] 1	--	2	--
		Females	45.68	5,418	3.91	212	207	----	--	5	--
		Unknown	--------	--------	------	2	2	----	--	----	--
Benzie	97	Total	100.00	1,980	3.38	67	66	1	--	----	--
		Males	49.25	1,061	3.11	33	33	----	--	----	--
		Females	50.74	919	3.69	34	33	[b] 1	--	----	--
Berrien	109	Total	--------	35,104	1.59	559	552	4	1	1	1
		Males	52.32	18,063	1.61	292	289	2	--	1	--
		Females	47.67	17,041	1.56	266	263	2	1	----	--
		Unknown	--------	--------	------	1	------	----	--	----	4
Branch	119	Total	100.00	26,227	1.57	413	413	----	--	----	--
		Males	54.47	13,248	1.69	225	225	----	--	----	--
		Females	45.52	12,979	1.44	188	188	----	--	----	--
Calhoun	113	Total	--------	36,571	1.91	700	682	10	5	3	--
		Males	53.15	18,550	2.00	371	360	5	3	[c] 3	--
		Females	46.84	18,021	1.81	327	320	5	2	----	--
		Unknown	--------	--------	------	2	2	----	--	----	--
Cass	98	Total	--------	19,211	1.77	341	310	18	12	1	--
		Males	49.55	9,938	1.69	168	158	[d] 8	6	1	--
		Females	50.44	9,273	1.84	171	156	[e] 10	5	----	--
		Unknown	--------	--------	------	2	1	----	1	----	--
Charlevoix	70	Total	100.00	1,452	3.65	53	52	1	--	----	--
		Males	41.50	797	2.76	22	21	1	--	----	--
		Females	58.49	655	4.73	31	31	----	--	----	--
Cheboygan	118	Total	--------	2,197	2.18	48	45	----	--	3	--
		Males	54.16	1,235	2.10	26	24	----	--	2	--
		Females	45.83	962	2.39	22	21	----	--	1	--

[a] "African," 1. [b] "Colored," 1. [c] "Copper Colored," 3. [d] "Colored," 4; "Negro," 2. [e] "Colored," 6; "Negro," 1.

Digitized by Google

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Chippewa	108	Total	--------	1,452	1.72	25	19	----	--	6	--
		Males	52.00	797	1.68	13	10	----	--	[a] 3	--
		Females	48.00	655	1.88	12	9	----	--	[a] 3	--
Clare	177	Total	--------	366	6.88	25	25	----	--	----	--
		Males	64.00	285	5.61	16	16	----	--	----	--
		Females	36.00	81	11.11	9	9	----	--	----	--
Clinton	100	Total	--------	22,851	2.44	559	557	1	--	----	1
		Males	50.08	11,813	2.36	279	278	1	--	----	--
		Females	49.91	11,088	2.51	278	278	----	--	----	--
		Unknown	--------	--------	------	2	1	----	-	----	1
Delta	116	Total	100.00	1,456	6.88	93	91	1	--	1	--
		Males	53.76	887	5.97	50	49	----	--	[c] 1	--
		Females	46.23	619	6.94	43	42	[b] 1	--	----	--
Eaton	119	Total	100.00	25,163	2.01	508	508	----	--	----	--
		Males	54.52	12,949	2.13	277	277	----	--	----	--
		Females	45.47	12,214	1.89	231	231	----	--	----	--
Emmet	100	Total	100.00	1,211	3.79	46	7	----	--	39	--
		Males	50.00	629	3.65	23	4	----	--	[d] 19	--
		Females	50.00	582	3.95	23	3	----	--	[e] 20	--
Genesee	97	Total	100.00	33,895	1.70	577	575	2	--	----	--
		Males	49.39	17,449	1.63	285	284	[b] 1	--	----	--
		Females	50.60	16,446	1.77	292	291	1	--	----	--
Gr. Traverse	89	Total	100.00	4,443	2.52	112	112	----	--	----	--
		Males	47.32	2,389	2.21	53	53	----	--	----	--
		Females	52.67	2,054	2.57	59	59	----	--	----	--
Gratiot	102	Total	100.00	11,808	2.24	265	265	----	--	----	--
		Males	50.56	6,189	2.16	134	134	----	--	----	--
		Females	49.43	5,619	2.33	131	131	----	--	----	--

[a] "White and Indian," 3. [b] "Colored," 1. [c] "Half-breed," 1. [d] "½ White," 1; "¾ White," 1. [e] "½ White," 1.

Digitized by Google

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Hillsdale	98	Total	100.00	31,688	1.81	575	574	1	--	----	--
		Males	49.73	16,104	1.77	286	286	----	--	----	--
		Females	50.26	15,584	1.85	289	288	1	--	----	--
Houghton	107	Total	100.00	9,640	4.13	399	381	----	--	18	--
		Males	51.88	5,327	3.88	207	201	----	--	[b] 6	--
		Females	48.12	4,313	4.45	192	180	----	--	[c] 12	--
Huron	108	Total	100.00	8,778	3.20	281	281	----	--	----	--
		Males	51.95	4,894	2.98	146	146	----	--	----	--
		Females	48.04	3,884	3.47	135	135	----	--	----	--
Ingham	101	Total	100.00	24,041	2.35	567	565	----	2	----	--
		Males	50.26	12,466	2.28	285	284	----	1	----	--
		Females	49.73	11,575	2.43	282	281	----	1	----	--
Ionia	113	Total	--------	26,105	2.04	585	584	1	--	----	--
		Males	53.19	13,653	2.07	283	282	1	--	----	--
		Females	46.80	12,452	1.99	249	249	----	--	----	--
		Unknown	--------	--------	------	3	3	----	--	----	--
Iosco	129	Total	100.00	[f] 3,175	1.73	55	55	----	--	----	--
		Males	56.36	1,913	1.62	31	31	----	--	----	--
		Females	43.63	1,262	1.90	24	24	----	--	----	--
Isabella	98	Total	100.00	3,979	3.49	139	126	2	--	10	1
		Males	49.64	2,128	3.24	69	65	[a] 1	--	2	1
		Females	50.35	1,851	3.78	70	61	[a] 1	--	8	--
Jackson	113	Total	--------	36,040	1.90	686	684	2	--	----	--
		Males	53.13	19,056	1.91	364	364	----	--	----	--
		Females	46.86	16,984	1.89	321	319	2	--	----	--
		Unknown	--------	--------	------	1	1	----	--	----	--
Kalamazoo	129	Total	--------	32,065	1.61	519	509	10	--	----	--
		Males	56.47	16,522	1.76	292	290	[d] 2	--	----	--
		Females	43.52	15,543	1.44	225	217	[e] 8	--	----	--
		Unknown	--------	--------	------	2	2	----	--	----	--

[a] "Colored," 1. [b] "Half," 3. [c] "Half," 5. [d] "Colored," 2. [e] "Colored," 7.
[f] Includes population of Ogemaw county.

Digitized by Google

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Kalkaska	133	Total	100.00	424	6.60	28	28	----	--	----	--
		Males	57.14	244	6.50	16	16	----	--	----	--
		Females	42.85	180	6.66	12	12	----	--	----	--
Kent	114	Total	--------	50,410	2.03	1,025	1,021	1	--	----	3
		Males	53.47	26,166	2.08	546	546	----	--	----	--
		Females	46.52	24,244	1.95	475	474	1	--	----	--
		Unknown	--------	--------	------	4	1	----	--	----	3
Lake	100	Total	100.00	548	8.39	46	46	----	--	----	--
		Males	50.00	305	7.54	23	23	----	--	----	--
		Females	50.00	243	9.46	23	23	----	--	----	--
Lapeer	105	Total	100.00	21,342	2.19	469	469	----	--	----	--
		Males	51.38	11,051	2.18	241	241	----	--	----	--
		Females	48.61	10,291	2.21	228	228	----	--	----	--
Leelanaw	114	Total	100.00	4,577	2.99	137	124	----	1	12	--
		Males	53.28	2,401	3.04	73	67	----	1	5	--
		Females	46.71	2,176	2.94	64	57	----	--	7	--
Lenawee	130	Total	--------	45,601	1.65	753	737	3	3	----	10
		Males	56.59	22,916	1.85	425	417	1	3	----	4
		Females	43.40	22,685	1.43	326	319	[a] 2	--	----	5
		Unknown	--------	--------	------	2	1	----	--	----	1
Livingston	132	Total	--------	19,335	1.67	324	322	1	--	----	1
		Males	56.96	10,072	1.82	184	183	----	--	----	1
		Females	43.03	9,263	1.50	139	138	1	--	----	--
		Unknown	--------	--------	------	1	1	----	--	----	--
Macomb	101	Total	--------	27,619	2.28	632	631	1	--	----	--
		Males	50.39	14,096	2.24	317	316	1	--	----	--
		Females	49.60	13,523	2.30	312	312	----	--	----	--
		Unknown	--------	--------	------	3	3	----	--	----	--

[a] "Colored," 1.

Digitized by Google

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Manistee	98	Total	--------	5,945	2.50	149	144	1	--	----	4
		Males	49.65	3,384	2.12	72	71	1	--	----	--
		Females	50.34	2,561	2.85	73	73	----	--	----	--
		Unknown	--------	--------	------	4	------	----	--	----	4
Manitou	150	Total	100.00	891	.56	5	5	----	--	----	--
		Males	60.00	488	.61	3	3	----	--	----	--
		Females	40.00	403	.49	2	2	----	--	----	--
Marquette	126	Total	100.00	14,278	4.37	624	620	----	2	2	--
		Males	55.76	8,485	4.10	348	346	----	1	1	--
		Females	44.23	5,793	4.76	276	274	----	1	1	--
Mason	103	Total	--------	2,187	2.88	63	60	----	--	3	--
		Males	50.81	1,187	2.61	31	29	----	--	2	--
		Females	49.18	1,000	3.00	30	29	----	--	1	--
		Unknown	--------	--------	------	2	2	----	--	----	--
Mecosta	100	Total	100.00	5,382	2.78	150	150	----	--	----	--
		Males	50.00	2,918	2.57	75	75	----	--	----	--
		Females	50.00	2,464	3.04	75	75	----	--	----	--
Menominee	25	Total	100.00	298	1.67	5	5	----	--	----	--
		Males	20.00	204	.49	1	1	----	--	----	--
		Females	80.00	94	4.25	4	4	----	--	----	--
Midland	130	Total	100.00	3,023	3.04	92	92	----	--	----	--
		Males	56.52	1,649	3.75	52	52	----	--	----	--
		Females	43.47	1,374	2.91	40	40	----	--	----	--
Missaukee	200	Total	100.00	130	4.61	6	6	----	--	----	--
		Males	66.66	76	5.26	4	4	----	--	----	--
		Females	33.33	54	3.70	2	2	----	--	----	--
Monroe	107	Total	--------	27,475	2.24	618	616	2	--	----	--
		Males	51.70	13,950	2.28	319	318	*1	--	----	--
		Females	48.29	13,525	2.20	298	297	*1	--	----	--
		Unknown	--------	--------	------	1	1	----	--	----	--

* "African," 1.

Digitized by Google

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Montcalm	142	Total	100.00	12,974	2.41	313	311	1	1	--	--
		Males	58.78	6,915	2.66	184	182	[a] 1	1	--	--
		Females	41.21	6,059	2.12	129	129	--	--	--	--
Muskegon	95	Total	100.00	12,926	2.64	342	290	1	--	--	51
		Males	48.88	7,347	2.27	167	145	[b] 1	--	--	21
		Females	51.16	5,579	3.13	175	145	--	--	--	30
Newaygo	104	Total	--	6,118	2.20	135	134	--	--	1	--
		Males	51.12	3,273	2.07	68	67	--	--	1	--
		Females	48.87	2,845	2.28	65	65	--	--	--	--
		Unknown	--	--	--	2	2	--	--	--	--
Oakland	103	Total	100.00	40,906	1.37	564	559	5	--	--	--
		Males	50.88	21,135	1.35	287	284	[c] 3	--	--	--
		Females	49.11	19,771	1.40	277	275	[d] 2	--	--	--
Oceana	111	Total	--	7,222	2.50	181	169	2	--	10	--
		Males	52.77	3,948	2.40	95	89	--	--	6	--
		Females	47.22	3,274	2.59	85	80	[e] 1	--	4	--
		Unknown	--	--	--	1	--	[e] 1	--	--	--
Ontonagon	120	Total	100.00	2,846	2.63	75	75	--	--	--	--
		Males	54.66	1,430	2.86	41	41	--	--	--	--
		Females	45.33	1,416	2.40	34	34	--	--	--	--
Osceola	128	Total	--	2,104	4.51	95	94	1	--	--	--
		Males	55.31	1,167	4.45	52	52	--	--	--	--
		Females	44.68	937	4.48	42	41	1	--	--	--
		Unknown	--	--	--	1	1	--	--	--	--
Ottawa	101	Total	--	26,650	2.65	707	702	1	--	2	2
		Males	50.35	14,050	2.49	351	351	--	--	--	--
		Females	49.64	12,600	2.74	346	343	1	--	2	--
		Unknown	--	--	--	10	8	--	--	--	2

[a] "Colored," 1. [b] "Negro," 1. [c] "Colored," 3. [d] "Colored," 2. [e] "African," 1.

Digitized by Google

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Presque Isle	66	Total	100.00	355	2.81	10	10	----	--	----	--
		Males	40.00	229	1.74	4	4	----	--	----	--
		Females	60.00	126	4.76	6	6	----	--	----	--
Saginaw	107	Total	--------	37,913	2.70	1,024	1,016	3	--	5	--
		Males	51.80	20,421	2.59	530	525	[a] 1	--	4	--
		Females	48.19	17,492	2.81	493	490	[a] 2	--	1	--
		Unknown	--------	--------	------	1	1	----	--	----	--
Sanilac	117	Total	--------	13,711	2.38	327	327	----	--	----	--
		Males	54.01	7,251	2.41	175	175	----	--	----	--
		Females	45.98	6,460	2.30	149	149	----	--	----	--
		Unknown	--------	--------	------	3	3	----	--	----	--
Shiawassee	98	Total	--------	20,822	2.20	460	458	2	--	----	--
		Males	49.67	10,815	2.10	228	227	1	--	----	--
		Females	50.32	10,007	2.30	231	230	1	--	----	--
		Unknown	--------	--------	------	1	1	----	--	----	--
St. Clair	113	Total	--------	36,759	2.57	945	945	----	--	----	--
		Males	53.07	19,011	2.63	501	501	----	--	----	--
		Females	46.92	17,748	2.49	443	443	----	--	----	--
		Unknown	--------	--------	------	1	1	----	--	----	--
St. Joseph	107	Total	100.00	26,272	1.58	417	416	1	--	----	--
		Males	51.79	13,480	1.60	216	216	----	--	----	--
		Females	48.20	12,792	1.57	201	200	[a] 1	--	----	--
Tuscola	107	Total	100.00	13,715	2.56	352	352	----	--	----	--
		Males	51.70	7,263	2.50	182	182	----	--	----	--
		Females	48.29	6,452	2.63	170	170	----	--	----	--
Van Buren	98	Total	--------	28,835	2.05	592	575	10	4	3	--
		Males	49.66	14,907	1.96	293	284	[b] 4	3	2	--
		Females	50.33	13,928	2.13	297	289	[b] 6	1	1	--
		Unknown	--------	--------	------	2	2	----	--	----	--

[a] "Colored," 1. [b] "Colored," 3; "African," 1.

Digitized by Google

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR. Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
Washtenaw..	117	Total....	--------	41,440	1.76	732	709	22	1	----	--
		Males....	53.99	21,478	1.82	392	378	[a] 14	--	----	--
		Females.	46.00	19,962	1.67	334	325	[b] 8	1	----	--
		Unknown	--------	--------	------	6	6	----	--	----	--
Wayne.....	114	Total....	--------	112,719	3.37	3,799	3,736	57	1	----	5
		Males....	53.38	56,714	3.57	2,025	1,989	[c] 34	1	----	1
		Females.	46.61	56,005	3.15	1,768	1,742	[d] 23	--	----	3
		Unknown	--------	--------	------	6	5	----	--	----	1
Wexford.....	85	Total....	100.00	478	2.71	13	13	----	--	----	--
		Males....	46.15	250	2.40	6	6	----	--	----	--
		Females.	53.84	228	3.07	7	7	----	--	----	--

[a] "Colored," 8. [b] "Colored," 5. [c] "Colored," 30; "Negro," 4. [d] "Colored," 19; "Negro," 3; "African," 1.

There is still opportunity for improvement in methods of returning the color of children born. The color should be stated as Black, Mulatto, Indian, White and Indian, etc., and not as African or Colored.

In certain classes of books and papers the statement is frequently seen that no variety of plants or animals, or race of human beings will thrive except through at least occasional infusion of new stock,—"new blood." It has been alleged, though not proven, that the Caucasian race is dying out here in America, and is only kept up by results of foreign immigration. On the other hand, so far as relates to the human family, perhaps the prevailing sentiment of the people is in a contrary direction. There is a prejudice or feeling against the mingling in marriage of foreign and native inhabitants, and the laws of Michigan decree that "No white person shall intermarry with a negro." The question of a change in public sentiment, or in the law, is not raised, and probably may not be soon; but if at any time in the future it shall be raised,

Digitized by Google

there seems no good evidence bearing upon the question, and unless evidence is collected its decision would necessarily be based only upon prejudice one way or the other. If there are important reasons why marriages of persons of different nationalities should be avoided or why intermarriage of different races should not be allowed, such facts ought to be known.

As returned heretofore, the statements of color of children seem to have been sufficient to work out, from Table V., one quite interesting fact, by a comparison of children of white persons, Indians, and persons of African descent; but there are other interesting questions which can only be answered by a comparison of children of pure blacks and of mulattoes with those of the white inhabitants. It is hoped that those who collect these statistics will soon attain to sufficient accuracy of statement to render such comparisons possible.

TABLE VII.—*Exhibiting, by Sex, by Number, and by Per Cent. of Total, the Parent-Nativity of Children born in Michigan during the Year 1871.*

NATIVITY OF PARENTS OF CHILDREN BORN.	BIRTHS IN 1871.							
	NUMBER.				PER CENT. OF TOTAL.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities	25,992	13,596	12,327	69	100.00	100.00	100.00	100.00
Both parents native	11,374	5,848	5,512	14	43.75	43.01	44.71	20.28
Both parents foreign	8,784	4,680	4,029	25	33.60	34.42	32.67	36.23
Foreign father and native mother	2,109	1,143	964	2	8.11	8.40	7.82	2.89
Foreign mother and native father	1,217	608	606	3	4.68	4.47	4.91	4.34
Unknown mother, father native	876	457	414	5	3.37	3.36	3.35	7.24
Unknown mother, father foreign	719	404	314	1	2.76	2.97	2.54	1.44
Unknown father, mother native	165	78	85	2	.63	.57	.68	2.89
Unknown father, mother foreign	306	156	149	1	1.17	1.14	1.20	1.44
Both unknown	492	222	254	16	1.89	1.63	2.06	23.18
One or both native	15,741	8,134	7,581	26	60.56	59.82	61.49	37.68
One or both foreign	13,085	6,991	6,062	32	50.34	51.41	49.17	46.37

Digitized by Google

EXHIBIT F.—*Parent-Nativity of Children born in Michigan during the Years 1869, 1870, and 1871.*

NATIVITY OF PARENTS OF CHILDREN BORN.	BIRTHS, 1869.		BIRTHS, 1870.		BIRTHS, 1871.	
	Number.	Per cent. of total.	Number.	Per cent. of total.	Number.	Per cent. of total.
All Nativities	27,098	100.00	26,668	100.00	25,992	100.00
Both parents native	13,060	48.20	12,395	46.48	11,374	43.75
Both parents foreign	8,043	29.68	8,604	32.26	8,734	33.60
Fathers foreign, mothers native	1,904	7.02	2,246	8.42	2,109	8.11
Mothers foreign, fathers native	1,219	4.49	1,325	4.96	1,217	4.68
One or both unknown	2,867	10.58	2,098	7.84	2,558	9.84
One or both parents native [a]	16,133	59.73	15,966	59.88	14,700	56.55
One or both parents foreign [a]	11,166	41.21	12,175	45.66	12,060	46.39

[a] Excluding cases where nativity of either parent is unknown.

The evidence of Exhibit F, taken by itself, would seem to indicate that the proportion of births of children of foreign parents is gradually increasing. Not much can be learned on this point immediately. One of the most important items of information wanted in this connection is a knowledge of the proportion of native and foreign-born inhabitants at the different ages during the several years under examination, in order to learn more especially whether the proportion of foreigners at reproductive ages is increasing, diminishing, or uniform.

Digitized by Google

EXHIBIT G.—*Parent-Nativity of the Total Population and of the Native-born Inhabitants of Michigan, June 1st, 1870, including the Per Cent. of each Nativity to the Total of all Nativities.* [a]

NATIVITY OF PARENTS.	TOTAL POPULATION JUNE 1, 1870.		NATIVE-BORN POPULATION JUNE 1, 1870.	
	Number.	Per cent. of total.	Number.	Per cent. of total.
All Nativities	1,184,059	100.00	916,049	100.00
Both parents native	695,900	58.77	695,900	75.96
Both parents foreign	416,836	35.16	[b] 148,826	16.19
Fathers foreign and mothers native	43,201	3.64	[c] 43,201	4.71
Mothers foreign and fathers native	28,622	2.41	[c] 28,622	3.12
One or both parents native	767,723	64.83	767,723	83.80
One or both parents foreign	488,159	41.22	220,149	24.03

[a] The material for this table is taken from Table IV., Pop. Vol. U. S. Census, 1870.
[b] Assuming that all foreign-born had both parents foreign, and subtracting the foreign-born,—268,010,—from the whole number having both parents foreign, this number results.
[c] Assuming that all persons were native-born, either of whose parents was native.
NOTE.—The compiler sorely laments the fact that Exhibits B and C in last Report are incorrect, being so through a wrong interpretation of Table IV. in Pop. Vol. U. S. Census, 1870. Exhibit G may be relied on as a correct interpretation, it having been submitted to the examination of Gen'l Walker, Sup't of the U. S. Census.

Implicit confidence should not be placed in the evidence of Exhibit G. There are good reasons for believing that the statement of native parents is too large, while the statement of foreign parents is too small. The error is the result of an imperfect method of collecting the facts, and the nature of the imperfection and the manner in which it may be avoided in future censuses are indicated in the summary of "Statistics of Michigan, 1870," pages xlii–xliii. This exhibit is, however, the nearest approach to the truth which it is possible to have until another census is taken.

Digitized by Google

EXHIBIT H.—*Parent-Nativity of Children born in Michigan during the Years 1870 and 1871,—Relation of Native and Foreign-born Parents to Native and Foreign-born Inhabitants.*

NATIVITY OF PARENTS OF CHILDREN AND NATIVITY OF INHABITANTS.	NATIVE AND FOREIGN BORN POPULATION JUNE 1, 1870.			PARENTS OF CHILDREN BORN IN 1870 AND 1871.							
				YEAR.	NUMBER.[a]			PER CENT. OF PARENTS TO POPULAT'N OF SAME SEX AND NATIVITY.		
	Total.	Males.	Females.		Both parents.	Fathers.	Mothers.	Both parents.	Fathers.	Mothers.
All Nativities [b]	[d] 1,158,166	608,655	554,511	1870	52,632	26,316	26,316	4.54	4.36	4.75
Native [c]	[d] 904,740	463,422	441,318		27,972	13,531	14,441	3.09	2.92	3.27
Foreign [c]	[d] 253,426	140,233	113,193		20,582	10,721	9,811	8.10	7.65	8.67
All Nativities [b]	[e] 1,147,234	597,767	549,466	1871	51,376	25,688	25,688	4.48	4.30	4.68
Native [c]	[e] 894,202	457,914	436,288		25,778	12,447	12,331	2.88	2.72	3.06
Foreign [c]	[e] 253,032	139,854	113,178		20,554	10,719	9,835	8.12	7.66	8.67

[a] As shown by number of children, after subtracting the proper number for twins and triplets.
[b] Includes parents of unknown nativities.
[c] Excluding cases where nativity of either parent is unknown.
[d] Except of counties and townships not represented by births in 1870.
[e] Except of counties and townships not represented by births in 1871.

Digitized by Google

It must not be concluded from the evidence in Exhibit H that the foreign-born inhabitants of Michigan are more prolific than the natives, for, although the conclusion may be right, the evidence in this exhibit is not necessarily in that direction. The foreign-born population includes a larger proportion at the reproductive ages, for two reasons, one being the much larger proportion of immigrants at such ages, and the other that all children born in this country, of both natives and foreigners are included in the native population. Exhibits I and J are intended to favor a closer study of this subject, dealing as they do with the parents of children and the native and foreign-born inhabitants of the State at child-bearing ages. Exhibits K and L are inserted for the purpose of showing that the evidence in Exhibit J may be slightly modified by the fact that the proportion of foreign-born inhabitants is greater at ages 20 to 45 and 25 to 45 than at ages 15 to 45. It is probable that a large proportion of the children are born of parents aged 25 to 45 years. This, however, cannot be positively learned, for the age of parents is not, as it should be, stated in the returns.

EXHIBIT I.—*Nativity of Inhabitants of Michigan June 1, 1870, aged 15 to 45 Years,—stating, by Sex, the number and Per Cent. of Native and Foreign-born Inhabitants at such Ages.*

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 15 TO 45 YEARS. [a]					
	NUMBER.			PER CENT. OF TOTAL.		
	Both sexes	Males.	Females.	Both sexes	Males.	Females.
All Nativities	555,352	289,085	266,267	100.00	100.00	100.00
Native-born	387,306	195,765	191,541	69.74	67.71	71.93
Foreign-born	168,046	93,320	74,726	30.25	32.28	28.06

[a] From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

Digitized by Google

EXHIBIT J.—*By Sex, the Relation of Native and Foreign-Years 1869, 1870, and 1871 to the Native and Foreign-born —15 to 45 Years.*

NATIVITY OF PARENTS OF CHILDREN BORN.	Number of Parents of Children Born in 1869. [a]			Per Cent. of Parents of Children born in 1869 to Inhabitants June 1, 1870, of same Nativity and Sex, aged 15 to 45.		
	Both parents.	Fathers.	Mothers.	Both parents.	Fathers.	Mothers.
All Nativities	53,580	26,790	26,790	9.65	9.27	10.06
Both parents native	25,772	12,886	12,886	[b] 6.65	[c] 6.58	[d] 6.73
Both parents foreign	15,920	7,960	7,960	[e] 9.47	[f] 8.53	[g] 10.65
Fathers foreign, mothers native	3,760	1,880	1,880	[f] 4.03	[f] 2.01	[d] .98
Mothers foreign, fathers native	2,414	1,207	1,207	[g] 3.28	[g] 1.62	[c] .62
One or both parents unknown	5,714	2,857	2,857	.....	.....	.....
One or both parents native [h]	31,946	15,973	15,973	[b] 8.25	[c] 8.16	[d] 8.33
One or both parents foreign [h]	22,094	11,047	11,047	[e] 13.15	[f] 11.84	[g] 14.78

[a] As shown by children born, after subtracting the proper number for twins and triplets.
[b] Per cent. to native-born inhabitants aged 15 to 45.
[c] Per cent. to native-born males aged 15 to 45.
[d] Per cent. to native-born females aged 15 to 45.

EXHIBIT K.—*Nativity of Inhabitants of Michigan June 1, 1870, aged 20 to 45 Years,—Stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such Ages.*

NATIVITY OF INHABITANTS.	Inhabitants of Michigan June 1, 1870, Aged 20 to 45 Years. [a]					
	Number.			Per Cent. of Total.		
	Both sexes	Males.	Females.	Both sexes	Males.	Females.
All Nativities	436,043	228,874	207,169	100.00	100.00	100.00
Native-born	289,004	146,278	142,726	66.28	63.91	68.89
Foreign-born	147,039	82,596	64,443	33.72	36.09	31.11

[a] From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

Digitized by Google

born Parents of Children born in Michigan during the Inhabitants of Michigan June1, 1870, at Child-bearing Ages,

Number of Parents of Childrrn Born in 1870. [a]			Per Cent. of Parents of Children Born in 1870 to Inhabitants June 1, 1870, of same Nativity and Sex, aged 15 to 45.			Number of Parents of Children Born in 1871. [a]			Per Cent. of Parents of Children Born in 1871 to Inhabitants June 1, 1870, of same Nativity and Sex, aged 15 to 45.		
Both parents.	Fathers.	Mothers.	Both parents.	Fathers.	Mothers.	Both parents.	Fathers.	Mothers.	Both parents.	Fathers.	Mothers.
52,632	26,316	26,316	9.48	9.10	10.01	51,376	25,688	25,688	9.25	8.88	9.64
24,444	12,222	12,222	[b] 6.31	[c] 6.24	[d] 6.38	22,476	11,238	11,238	[b] 5.80	[c] 5.74	[d] 5.86
17,004	8,502	8,502	[e] 10.12	[f] 9.11	[g] 11.37	17,252	8,626	8,626	[e] 10.26	[f] 9.24	[g] 11.54
4,438	2,219	2,219	[f] 4.76	[f] 2.37	[d] 1.15	4,186	2,098	2,098	[f] 4.48	[f] 2.24	[d] 1.09
2,618	1,309	1,309	[g] 3.50	[g] 1.75	[c] .66	2,418	1,209	1,209	[g] 3.23	[g] 1.61	[c] .61
4,128	2,064	2,064	------	------	------	5,044	2,522	2,522	------	------	------
31,500	15,750	15,750	[b] 8.13	[c] 8.04	[d] 8.22	29,080	14,540	14,540	[b] 7.50	[c] 7.42	[d] 7.59
24,060	12,030	12,030	[e] 14.32	[f] 12.80	[g] 16.09	23,856	11,928	11,928	[e] 14.19	[f] 12.78	[g] 15.96

[e] Per cent. to foreign-born inhabitants aged 15 to 45.
[f] Per cent. to foreign-born males aged 15 to 45.
[g] Per cent. to foreign-born females aged 15 to 45.
[h] Excluding cases where nativity of either parent is unknown.

EXHIBIT L.—*Nativity of Inhabitants of Michigan June 1, 1870, Aged 25 to 45 Years,—Stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such Ages.*

Nativity of Inhabitants.	Inhabitants of Michigan June 1, 1870, Aged 25 to 45 Years. [a]					
	Number.			Per Cent. of Total.		
	Both sexes	Males.	Females.	Both sexes	Males.	Females.
All Nativities	320,546	168,756	151,790	100.00	100.00	100.00
Native-born	205,374	103,900	101,474	64.07	61.56	66.85
Foreign-born	115,172	64,856	50,316	35.93	38.43	33.15

[a] From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

Digitized by Google

TABLE VIII.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children Born during the Year 1871, and the Parent-Nativity of such Children, so far as stated in the Returns.* (*Stillbirths included.*)

STATE AND COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.[a]								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N. Father. Native.	MOTHER UNK'N. Father. Foreign.	FATHER UNK'N. Mother. Native.	FATHER UNK'N. Mother. Foreign.	Both unknown.
State[b]	Total	25,992	11,874	8,784	2,109	1,217	876	719	165	306	492
	Males	13,596	5,848	4,680	1,143	608	457	404	78	156	222
	Females	12,327	5,512	4,629	964	606	414	314	85	149	254
	Unknown	69	14	25	2	3	5	1	2	1	16
Alcona	Total	23	8	7	4	4	----	----	----	----	----
	Males	16	5	6	2	3	----	----	----	----	----
	Females	7	3	1	2	1	----	----	----	----	----
Allegan	Total	621	333	163	43	36	27	13	1	1	4
	Males	307	166	76	19	22	14	7	1	----	2
	Females	313	167	87	24	14	13	6	----	1	1
	Unknown	1	------	------	------	------	----	----	----	----	1
Alpena	Total	37	5	22	3	1	4	2	----	----	----
	Males	22	3	12	2	------	3	2	----	----	----
	Females	15	2	10	1	1	1	----	----	----	----
Antrim	Total	46	20	20	2	3	----	----	1	----	----
	Males	26	11	12	2	------	----	----	1	----	----
	Females	20	9	8	------	3	----	----	----	----	----
Barry	Total	443	313	58	40	19	4	----	4	1	4
	Males	216	150	29	21	9	1	----	2	1	3
	Females	225	162	29	19	9	3	----	2	----	1
	Unknown	2	1	------	------	1	----	----	----	----	----

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
[b] For townships from which no returns of births were received see Table IV., of Births by Months; also Table XXI.

Digitized by Google

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.[a]								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N. Father. Native.	MOTHER UNK'N. Father. Foreign.	FATHER UNK'N. Mother. Native.	FATHER UNK'N. Mother. Foreign.	Both unknown.
Bay	Total	466	105	239	58	35	7	17	2	----	3
	Males	252	57	133	32	13	1	14	1	----	1
	Females	212	48	106	26	22	4	3	1	----	2
	Unknown	2	------	------	------	------	2	----	----	----	----
Benzie	Total	67	48	9	6	2	1	----	----	----	1
	Males	33	25	4	1	2	----	----	----	----	1
	Females	34	23	5	5	------	1	----	----	----	----
Berrien	Total	559	337	146	37	19	6	5	4	----	5
	Males	292	172	77	22	10	3	4	3	----	1
	Females	266	165	68	15	9	3	1	1	----	4
	Unknown	1	------	1	------	------	----	----	----	----	----
Branch	Total	418	339	30	27	9	4	----	2	1	1
	Males	225	189	19	13	3	----	----	1	----	----
	Females	188	150	11	14	6	4	----	1	1	1
Calhoun	Total	700	481	119	47	38	4	4	2	1	4
	Males	371	244	70	23	26	2	3	2	----	1
	Females	327	236	48	24	12	2	1	----	1	3
	Unknown	2	1	1	------	------	----	----	----	----	----
Cass	Total	341	282	18	25	13	1	1	1	----	----
	Males	168	141	5	17	4	1	----	----	----	----
	Females	171	139	13	8	9	----	1	1	----	----
	Unknown	2	2	------	------	------	----	----	----	----	----
Charlevoix	Total	58	23	22	6	1	----	----	----	----	1
	Males	22	10	8	3	1	----	----	----	----	----
	Females	31	13	14	3	------	----	----	----	----	1
Cheboygan	Total	48	7	1	5	3	7	23	----	----	2
	Males	26	3	1	3	2	4	12	----	----	1
	Females	22	4	------	2	1	3	11	----	----	1

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

Digitized by Google

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.[a]								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N. Father. Native.	MOTHER UNK'N. Father. Foreign.	FATHER UNK'N. Mother. Native.	FATHER UNK'N. Mother. Foreign.	Both unknown.
Chippewa	Total	25	7	3	4	1	1	6	1	----	2
	Males	13	5	1	1	------	1	4	1	----	----
	Females	12	2	2	3	1	----	2	----	----	2
Clare	Total	25	15	4	3	3	----	----	----	----	----
	Males	16	6	4	3	3	----	----	----	----	----
	Females	9	9	------	------	------	----	----	----	----	----
Clinton	Total	559	359	99	65	22	10	2	----	1	1
	Males	279	175	52	30	14	6	2	----	----	----
	Females	278	184	45	35	8	4	----	----	1	1
	Unknown	2	------	2	------	------	----	----	----	----	----
Delta	Total	93	16	56	11	3	1	4	1	1	----
	Males	50	8	32	4	2	1	2	----	1	----
	Females	43	8	24	7	1	----	2	1	----	----
Eaton	Total	508	411	20	37	11	15	6	5	----	3
	Males	277	224	14	17	4	10	4	2	----	2
	Females	231	187	6	20	7	5	2	3	----	1
Emmet	Total	46	27	1	12	1	1	----	4	----	----
	Males	23	15	1	5	------	----	----	2	----	----
	Females	23	12	------	7	1	1	----	2	----	----
Genesee	Total	577	383	83	53	38	1	----	3	----	16
	Males	285	181	48	29	20	1	----	2	----	4
	Females	292	202	35	24	18	----	----	1	----	12
Gr. Traverse	Total	112	52	27	6	7	8	7	2	1	2
	Males	53	28	13	1	2	2	6	----	----	1
	Females	59	24	14	5	5	6	1	2	1	1
Gratiot	Total	265	185	19	25	14	10	1	2	1	8
	Males	134	93	10	13	9	6	----	----	----	3
	Females	131	92	9	12	5	4	1	2	1	5

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

Digitized by Google

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.[a]								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N. Father.		FATHER UNK'N. Mother.		Both unknown.
							Native.	Foreign.	Native.	Foreign.	
Hillsdale	Total	575	398	23	35	22	81	8	2	----	6
	Males	286	196	12	20	18	41	3	----	----	1
	Females	289	202	11	15	9	40	5	2	----	5
Houghton	Total	399	5	168	3	4	----	2	17	199	1
	Males	207	1	87	2	2	----	2	6	106	1
	Females	192	4	81	1	2	----	----	11	93	----
Huron	Total	281	30	205	30	13	----	1	----	1	1
	Males	146	14	108	14	9	----	----	----	----	1
	Females	135	16	97	16	4	----	1	----	1	----
Ingham	Total	567	359	84	38	28	42	5	5	----	6
	Males	285	187	41	18	14	18	3	2	----	2
	Females	282	172	43	20	14	24	2	3	----	4
Ionia	Total	535	368	83	38	24	2	3	9	2	6
	Males	288	196	49	20	9	1	2	3	1	2
	Females	249	170	34	18	15	1	1	6	1	3
	Unknown	3	2	------	------	------	----	----	----	----	1
Iosco	Total	55	17	25	5	6	2	----	----	----	----
	Males	31	7	16	4	3	1	----	----	----	----
	Females	24	10	9	1	3	1	----	----	----	----
Isabella	Total	139	86	23	8	6	12	2	----	1	1
	Males	69	44	11	6	4	4	----	----	----	----
	Females	70	42	12	2	2	8	2	----	1	1
Jackson	Total	686	442	125	41	28	30	6	4	----	10
	Males	364	227	66	31	17	15	5	1	----	2
	Females	321	214	59	10	11	15	1	3	----	8
	Unknown	1	1	------	------	------	----	----	----	----	----

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

Digitized by Google

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.[a]								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N. Father.		FATHER UNK'N. Mother.		Both unknown.
							Native.	Foreign.	Native.	Foreign.	
Kalamazoo	Total	519	188	15	40	19	159	124	5	----	19
	Males	292	68	11	26	9	85	88	2	----	8
	Females	225	69	4	14	10	73	41	3	----	11
	Unknown	2	1	------	------	------	1	----	----	----	----
Kalkaska	Total	28	13	6	7	1	1	----	----	----	----
	Males	16	5	5	6	------	----	----	----	----	----
	Females	12	8	1	1	1	1	----	----	----	----
Kent	Total	1,025	421	302	115	59	39	75	6	3	5
	Males	546	223	166	56	29	22	42	3	2	3
	Females	475	197	135	59	29	16	33	3	1	2
	Unknown	4	1	1	------	1	1	----	----	----	----
Keweenaw[b]		------	------	------	------	------	----	----	----	----	----
Lake	Total	46	27	12	3	3	----	----	1	----	----
	Males	23	16	3	2	2	----	----	----	----	----
	Females	23	11	9	1	1	----	----	1	----	----
Lapeer	Total	469	185	137	57	39	26	20	2	2	1
	Males	241	92	75	30	20	12	9	2	----	1
	Females	228	93	62	27	19	14	11	----	2	----
Leelanaw	Total	137	49	64	16	6	----	----	1	1	----
	Males	73	23	36	8	4	----	----	1	1	----
	Females	64	26	28	8	2	----	----	----	----	----
Lenawee	Total	753	483	153	59	24	25	1	4	1	3
	Males	425	269	91	30	14	15	----	3	----	3
	Females	326	212	62	29	10	10	1	1	1	----
	Unknown	2	2	------	------	------	----	----	----	----	----

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
[b] No returns.

Digitized by Google

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.[a]								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N. Father. Native.	MOTHER UNK'N. Father. Foreign.	FATHER UNK'N. Mother. Native.	FATHER UNK'N. Mother. Foreign.	Both unknown.
Livingston	Total	324	182	40	30	12	39	6	6	1	8
	Males	184	97	29	14	6	26	3	3	----	6
	Females	139	85	11	16	6	13	3	2	1	2
	Unknown	1	------	------	------	------	----	----	1	----	----
Mackinac[b]		------	------	------	------	------	----	----	----	----	----
Macomb	Total	682	207	155	66	39	74	86	2	1	2
	Males	317	102	80	36	18	34	45	1	1	----
	Females	312	105	73	30	20	40	41	1	----	2
	Unknown	3	------	2	------	1	----	----	----	----	----
Manistee	Total	149	36	54	20	6	4	3	1	----	25
	Males	72	13	25	12	4	1	----	1	----	16
	Females	73	23	29	8	2	3	3	----	----	5
	Unknown	4	------	------	------	------	----	----	----	----	4
Manitou	Total	5	------	3	1	------	1	----	----	----	----
	Males	3	------	1	1	------	1	----	----	----	----
	Females	2	------	2	------	------	----	----	----	----	----
Marquette	Total	624	41	535	22	15	----	4	----	3	4
	Males	348	22	296	17	8	----	3	----	1	1
	Females	276	19	239	5	7	----	1	----	2	3
Mason	Total	63	37	9	10	4	1	1	----	----	1
	Males	31	19	5	6	1	----	----	----	----	----
	Females	30	18	4	4	3	----	1	----	----	----
	Unknown	2	------	------	------	------	1	----	----	----	1
Mecosta	Total	150	76	34	21	13	4	----	----	----	2
	Males	75	35	21	12	5	2	----	----	----	----
	Females	75	41	13	9	8	2	----	----	----	2

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
[b] No returns.

Digitized by Google

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	Nativity of Parents.[a]								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Mother unk'n. Father.		Father unk'n. Mother.		Both unknown.
							Native.	Foreign.	Native.	Foreign.	
Menominee	Total	5	2	----	----	----	3	----	----	----	----
	Males	1	----	----	----	----	1	----	----	----	----
	Females	4	2	----	----	----	2	----	----	----	----
Midland	Total	92	50	27	12	3	----	----	----	----	----
	Males	52	28	17	6	1	----	----	----	----	----
	Females	40	22	10	6	2	----	----	----	----	----
Missaukee	Total	6	----	4	----	1	1	----	----	----	----
	Males	4	----	3	----	1	----	----	----	----	----
	Females	2	----	1	----	----	1	----	----	----	----
Monroe	Total	618	341	193	28	22	2	17	3	----	12
	Males	319	177	108	15	9	1	9	1	----	4
	Females	298	164	89	13	13	1	8	2	----	8
	Unknown	1	----	1	----	----	----	----	----	----	----
Montcalm	Total	313	204	43	34	22	4	1	1	----	4
	Males	184	114	26	22	16	4	----	----	----	2
	Females	129	90	17	12	6	----	1	1	----	2
Muskegon	Total	342	117	96	41	24	21	36	----	1	6
	Males	167	58	44	17	11	13	22	----	----	2
	Females	175	59	52	24	13	8	14	----	1	4
Newaygo	Total	135	61	13	11	4	11	1	15	2	17
	Males	68	32	7	8	2	5	1	5	1	7
	Females	65	29	6	3	2	6	----	10	1	8
	Unknown	2	----	----	----	----	----	----	----	----	2
Oakland	Total	564	304	88	63	36	41	19	2	1	10
	Males	287	145	52	36	16	26	7	1	----	4
	Females	277	159	36	27	20	15	12	1	1	6

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

Digitized by Google

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.[a]								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N. Father. Native.	MOTHER UNK'N. Father. Foreign.	FATHER UNK'N. Mother. Native.	FATHER UNK'N. Mother. Foreign.	Both unknown.
Oceana	Total	181	107	22	18	11	16	3	----	----	4
	Males	95	58	14	9	4	7	1	----	----	2
	Females	85	49	8	9	7	9	2	----	----	1
	Unknown	1	------	------	------	------	----	----	----	----	1
Ontonagon	Total	75	1	65	8	5	----	1	----	----	----
	Males	41	1	35	1	4	----	----	----	----	----
	Females	34	------	30	2	1	----	1	----	----	----
Osceola	Total	95	58	22	9	6	----	----	----	----	----
	Males	52	31	13	6	2	----	----	----	----	----
	Females	42	27	8	3	4	----	----	----	----	----
	Unknown	1	------	1	------	------	----	----	----	----	----
Ottawa	Total	707	130	414	31	16	40	58	2	----	16
	Males	351	63	206	16	7	21	32	----	----	6
	Females	346	67	201	15	9	19	25	1	----	9
	Unknown	10	------	7	------	------	----	1	1	----	1
Presque Isle	Total	10	------	8	------	1	----	1	----	----	----
	Males	4	------	3	------	1	----	----	----	----	----
	Females	6	------	5	------	------	----	1	----	----	----
Saginaw	Total	1,024	255	518	98	47	31	48	4	3	20
	Males	530	126	276	51	20	16	24	4	1	12
	Females	493	128	242	47	27	15	24	----	2	8
	Unknown	1	1	------	------	------	----	----	----	----	----
Sanilac	Total	327	27	228	38	32	----	1	----	----	1
	Males	175	16	124	20	14	----	1	----	----	----
	Females	149	11	101	18	18	----	----	----	----	1
	Unknown	3	------	3	------	------	----	----	----	----	----
Schoolcraft[b]		------	------	------	------	------	----	----	----	----	----

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
[b] No returns.

Digitized by Google

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.[a]								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N. Father. Native.	MOTHER UNK'N. Father. Foreign.	FATHER UNK'N. Mother. Native.	FATHER UNK'N. Mother. Foreign.	Both unknown.
Shiawassee	Total	460	295	64	32	32	14	8	6	1	8
	Males	228	139	31	19	17	8	5	3	----	6
	Females	231	156	33	13	15	6	3	3	----	2
	Unknown	1	------	------	------	------	----	----	----	1	----
St. Clair	Total	945	186	524	120	95	6	8	2	----	4
	Males	501	108	270	62	50	3	5	1	----	2
	Females	443	78	254	57	45	3	3	1	----	2
	Unknown	1	------	------	1	------	----	----	----	----	----
St. Joseph	Total	417	322	52	32	9	----	----	1	----	1
	Males	216	171	25	17	3	----	----	----	----	----
	Females	201	151	27	15	6	----	----	1	----	1
Tuscola	Total	352	148	95	39	42	10	15	2	----	1
	Males	182	79	45	21	20	8	8	----	----	1
	Females	170	69	50	18	22	2	7	2	----	----
Van Buren	Total	592	444	51	46	30	13	----	3	1	4
	Males	293	213	24	28	13	5	----	3	----	2
	Females	297	225	26	18	17	8	----	----	1	2
	Unknown	2	1	1	-----	------	----	----	----	----	----
Washtenaw	Total	732	331	259	75	43	4	2	1	2	15
	Males	392	172	140	46	21	3	2	1	2	5
	Females	334	158	117	28	22	1	----	----	----	8
	Unknown	6	1	2	1	------	----	----	----	----	2
Wayne	Total	3,799	628	2,525	194	82	3	62	22	72	211
	Males	2,025	342	1,360	103	36	1	27	13	38	100
	Females	1,768	286	1,162	86	46	2	35	9	34	108
	Unknown	6	------	3	------	------	----	----	----	----	3
Wexford	Total	13	7	2	1	------	2	----	1	----	----
	Males	6	3	1	1	------	1	----	----	----	----
	Females	7	4	1	------	------	1	----	1	----	----

[a] "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

Digitized by Google

TABLE IX.—*Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children returned as having been born in Michigan during the year 1871, by Months arranged in order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.*

	YEAR AND MONTHS.	Number of Twin Children.				Number of Pairs of Twins.					
		Total.	Males.	Females.	Males to 100 Females.	Total.	Males.	Females.	One of each.	Males to 100 one of each sex.	Males to 100 Females.
	Year 1871	596	316	280	113	298	96	78	124	77	123
More than an average number of twins.	July	66	41	25	164	33	14	6	13	108	233
	August	64	27	37	73	32	8	13	11	73	62
	September	60	32	28	114	30	10	8	12	83	125
	December	60	31	29	107	30	11	10	9	122	110
	October	58	30	28	107	29	9	8	12	75	113
	June	54	34	20	170	27	13	6	8	163	217
	Average per month [a]	49.6	26.3	23.3	113	24.8	8	6.5	10.3	77	123
Less than an average number of twins.	May	48	26	22	118	24	7	5	12	58	140
	November	44	23	21	110	22	8	7	7	114	114
	April	42	21	21	100	21	3	3	15	20	100
	March	38	19	19	100	19	4	4	11	36	100
	January	30	13	17	76	15	2	4	9	22	50
	February	30	18	12	150	15	7	4	4	175	175
	Unknown	2	1	1	100	1	----	------	1	------	----

[a] Unknown month included.

In 1870, the order of greatest number of pairs of twins was: both males, one of each sex, both females. It will be seen by Table IX. that in 1871 it is: one of each sex, 124 pairs; both males, 96 pairs; both females, 78 pairs. Notwithstanding this change in the order, the proportion of males was greater in 1871 than in the previous year, when for all twins it was 107 males to 100 females, while in 1871 it is 113 males to 100 females. This is apparently another instance where a decrease in number of children born is attended with a lessened proportion of female children, as pointed out on page 78 of last

Digitized by Google

Report. While in 1870 there were 678 twin children born, in 1871 only 596 were returned.

If the reader desires to compare the proportion of twins of either or of both sexes with the proportion of total births by months, he can do so by referring to Table II., page 2 of this Report.

TABLE X.—*Parent-Nativity of Twins Born in Michigan during the year 1871.*

NATIVITY OF PARENTS.	TWIN CHILDREN.							
	NUMBER OF PAIRS.				PER CENT. OF EACH PARENT-NATIVITY.			
	Total.	Males.	Females.	One of each sex.	Total.	Males.	Females.	One of each sex.
All Nativities	298	96	78	124	100.00	100.00	100.00	100.00
Both native	132	39	41	52	44.30	40.63	52.56	41.94
Both foreign	106	42	22	42	35.57	43.75	28.21	33.87
Foreign father and native mother	16	3	4	9	5.37	3.12	5.13	7.26
Foreign mother and native father	8	1	4	3	2.68	1.04	5.13	2.42
Unknown mother, father native	15	4	5	6	5.03	4.17	6.41	4.84
Unknown mother, father foreign	13	5	----	8	4.36	5.21	------	6.45
Unknown father, mother foreign	2	----	----	2	.67	------	------	1.61
Both unknown	6	2	2	2	2.01	2.08	2.56	1.61
One or both native	171	47	54	70	57.38	48.96	69.23	56.45
One or both foreign	145	51	30	64	48.66	53.13	38.46	51.61

Digitized by Google

EXHIBIT M.—*Parent-Nativity of Twins born in Michigan during the Years 1870 and 1871,—Relation of Native and Foreign-born Parents to Native and Foreign-born Population.*

NATIVITY OF PARENTS OF TWINS AND NATIVITY OF INHABITANTS	NATIVE AND FOREIGN-BORN POPULATION JUNE 1, 1870.			PARENTS OF TWINS BORN IN 1870 AND 1871.						
				YEAR.	NUMBER.			Per cent. of parents to populat'n of same sex and nativity.		
	Total.	Males.	Females.		Both Parents.	Fathers.	Mothers.	Both Parents.	Fathers.	Mothers.
All Nativities [a]	[c]1,158,166	603,655	554,511	1870	620	310	310	.005	.005	.005
Native [b]	[c] 904,740	463,422	441,318		377	183	194	.004	.004	.004
Foreign [b]	[c] 253,426	140,233	113,193		243	127	116	.009	.009	.009
All Nativities [a]	[d]1,147,234	597,767	549,466	1871	524	262	262	.004	.004	.004
Native [b]	[d] 894,202	457,914	436,288		288	140	148	.003	.003	.003
Foreign [b]	[d] 253,032	139,854	113,178		236	122	114	.009	.009	.010

[a] Includes parents of unknown nativities.
[b] Excluding cases where nativity of either parent is unknown.
[c] Except of counties and townships not represented by births in 1870.
[d] Except of counties and townships not represented by births in 1871.

Digitized by Google

TABLE XI.—*Parent-Nativity of Twins born in Michigan during the year 1871,—distinguishing between Parents Natives of the Same State, and those born in Different States or Countries.*

NATIVITY OF PARENTS.	Pairs of Twins.							
	Number.				Per Cent. of each Parent-Nativity.			
	Total.	Males.	Females.	One of each.	Total.	Males.	Females.	One of each.
All nativities	298	96	78	124	100.00	100.00	100.00	100.00
Same American or foreign State	171	59	43	69	57.38	61.46	55.13	55.65
Different American or foreign State	67	22	20	25	22.48	22.92	25.64	20.16
Foreign father and native mother	16	3	4	9	5.37	3.12	5.13	7.26
Foreign mother and native father	8	1	4	3	2.68	1.04	5.13	2.42
Unknown mother, father native	15	4	5	6	5.03	4.17	6.41	4.84
Unknown mother, father foreign	13	5	....	8	4.36	5.21	.....	6.45
Unknown father, mother foreign	2	....	....	2	.67	.....	.....	1.61
Both unknown	6	2	2	2	2.01	2.08	2.56	1.61
Different State or country [a]	91	26	28	37	30.54	27.08	35.90	29.84

[a] Includes "Different American or foreign State," "Foreign father and native mother," and "Foreign mother and native father." Compare with "Same American or foreign State."

Digitized by Google

TABLE XII.—*Exhibiting for the State and Counties, by Sex, the Number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins born in Michigan during the Year 1871. Nativity stated by Pairs of Twins.*

STATE AND COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.						
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			
State	Total	596	298	75	57	96	10	16	8	36
	Males	316	96	21	18	38	4	3	1	11
	Females	280	78	23	18	20	2	4	4	7
	One of each	.....	124	31	21	38	4	9	3	18
Allegan	Total	24	12	4	2	5	....	....	....	1
	Males	16	7	[a]1	2	4	....	....	....	....
	Females	8	3	2	....	1	....	....	....	....
	One of each	.....	2	1	....	....	....	....	....	[b]1
Alpena	Total	2	1	....	....	1	....	....	....	....
	Males	1	.....	....	....	....	....	....	....	....
	Females	1	.....	....	....	....	....	....	....	....
	One of each	.....	1	....	....	1	....	....	....	....
Antrim	Total	2	1	1	....	....	....	....	....	....
	Females	2	1	1	....	....	....	....	....	....
Barry	Total	8	4	2	2	....	....	....	....	....
	Males	2	.....	....	....	....	....	....	....	....
	Females	6	2	1	1	....	....	....	....	....
	One of each	.....	2	1	1	....	....	....	....	....
Bay	Total	4	2	....	....	2	....	....	....	....
	Males	4	2	....	....	2	....	....	....	....

[a] Indian, 1 pair. [b] Father foreign, 1 pair.

Digitized by Google

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	Nativity of Parents. Native. Both parents from same State.	Native. From different States.	Foreign. Both from same country.	Foreign. From different countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
Benzie	Total	2	1	----	----	1	----	----	----	----
	Males	1	------	----	----	----	----	----	----	----
	Females	1	------	----	----	----	----	----	----	----
	One of each	------	1	----	----	1	----	----	----	----
Berrien	Total	6	3	1	----	1	----	----	----	1
	Males	3	1	1	----	----	----	----	----	----
	Females	3	1	----	----	1	----	----	----	----
	One of each	------	1	----	----	----	----	----	----	[a] 1
Branch	Total	6	3	1	----	----	----	1	----	1
	Males	2	------	----	----	----	----	----	----	----
	Females	4	1	----	----	----	----	----	----	[b] 1
	One of each	------	2	1	----	----	----	1	----	----
Calhoun	Total	14	7	3	----	4	----	----	----	----
	Males	6	1	----	----	1	----	----	----	----
	Females	8	2	1	----	1	----	----	----	----
	One of each	------	4	2	----	2	----	----	----	----
Cass	Total	6	3	1	2	----	----	----	----	----
	Males	2	------	----	----	----	----	----	----	----
	Females	4	1	----	1	----	----	----	----	----
	One of each	------	2	1	1	----	----	----	----	----
Cheboygan	Total	2	1	----	----	----	----	----	----	1
	Males	1	------	----	----	----	----	----	----	----
	Females	1	------	----	----	----	----	----	----	----
	One of each	------	1	----	----	----	----	----	----	[c] 1
Clinton	Total	14	7	2	1	3	----	1	----	----
	Males	9	3	1	----	2	----	----	----	----
	Females	5	1	----	----	1	----	----	----	----
	One of each	------	3	1	1	----	----	1	----	----

[a] Illegitimate, 1 pair—father native. [b] Father native, 1 pair. [c] Father foreign, 1 pair.

Digitized by Google

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	Nativity of Parents.						
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			
Delta	Total	2	1	----	----	1	----	----	----	----
	Females	2	1	----	----	1	----	----	----	----
Eaton	Total	22	11	5	3	----	1	2	----	----
	Males	13	4	2	----	----	1	1	----	----
	Females	9	2	1	1	----	----	----	----	----
	One of each	------	5	2	2	----	----	1	----	----
Emmet	Total	2	1	1	----	----	----	----	----	----
	Males	2	1	[a]1	----	----	----	----	----	----
Genesee	Total	16	8	4	2	1	----	1	----	----
	Males	11	4	3	----	1	----	----	----	----
	Females	5	1	----	1	----	----	----	----	----
	One of each	------	3	1	1	----	----	1	----	----
Grand Traverse	Total	2	1	----	----	----	----	----	----	1
	Females	2	1	----	----	----	----	----	----	[b]1
Gratiot	Total	8	4	1	2	1	----	----	----	----
	Males	6	3	[c]1	[c]1	[c]1	----	----	----	----
	Females	2	1	----	[c]1	----	----	----	----	----
Hillsdale	Total	8	4	----	4	----	----	----	----	----
	Males	3	------	----	----	----	----	----	----	----
	Females	5	1	----	1	----	----	----	----	----
	One of each	------	3	----	3	----	----	----	----	----
Houghton	Total	6	3	----	----	2	----	----	----	1
	Males	3	1	----	----	1	----	----	----	----
	Females	3	1	----	----	1	----	----	----	----
	One of each	------	1	----	----	----	----	----	----	[d]1

[a] Indian, 1 pair. [b] Father native, 1 pair. [c] Color unknown, 1 pair.
[d] Mother foreign, 1 pair.

Digitized by Google

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	Nativity of Parents.						
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			
Huron	Total	6	3	1	....	2	....	....	....	....
	Males	3	.....	....	....	....	....	....	....	....
	Females	3	.....	....	....	....	....	....	....	....
	One of each	.....	3	1	....	2	....	....	....	....
Ingham	Total	8	4	1	1	2	....	....	....	....
	Males	2	.....	....	....	....	....	....	....	....
	Females	6	2	....	1	1	....	....	....	....
	One of each	.....	2	1	....	1	....	....	....	....
Ionia	Total	16	8	3	4	1	....	....	....	....
	Males	8	3	3	....	....	....	....	....	....
	Females	8	3	....	3	....	....	....	....	....
	One of each	.....	2	....	1	1	....	....	....	....
Iosco	Total	2	1	....	....	....	....	....	....	1
	Males	1	.....	....	....	....	....	....	....	....
	Females	1	.....	....	....	....	....	....	....	....
	One of each	.....	1	....	....	....	....	....	....	[a] 1
Isabella	Total	2	1	1	....	....	....	....	....	....
	Males	1	.....	....	....	....	....	....	....	....
	Females	1	.....	....	....	....	....	....	....	....
	One of each	.....	1	1	....	....	....	....	....	....
Jackson	Total	16	8	2	3	2	1	....	....	....
	Males	4	.....	....	....	....	....	....	....	....
	Females	12	4	1	2	....	1	....	....	....
	One of each	.....	4	1	1	2	....	....	....	....
Kalamazoo	Total	12	6	....	2	....	....	....	....	4
	Males	6	2	....	1	....	....	....	....	[b] 1
	Females	6	2	....	....	....	....	....	....	[c] 2
	One of each	.....	2	....	1	....	....	....	....	[b] 1

[a] Father native, 1 pair. [b] Father foreign, 1 pair. [c] Father native, 2 pairs.

Digitized by Google

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	Nativity of Parents. Native. Both parents from same State.	Native. From different States.	Foreign. Both from same country.	Foreign. From different countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
Kent	Total	28	14	3	1	2	----	2	2	4
	Males	17	6	1	1	2	----	----	1	[a] 1
	Females	11	3	1	----	----	----	----	1	[a] 1
	One of each	------	5	1	----	----	----	2	----	[b] 2
Lake	Total	2	1	1	----	----	----	----	----	----
	Males	1	------	----	----	----	----	----	----	----
	Females	1	------	----	----	----	----	----	----	----
	One of each	------	1	1	----	----	----	----	----	----
Lapeer	Total	10	5	2	----	2	----	----	1	----
	Males	4	1	----	----	1	----	----	----	----
	Females	6	2	1	----	----	----	----	1	----
	One of each	------	2	1	----	1	----	----	----	----
Leelanaw	Total	6	3	2	----	1	----	----	----	----
	Males	2	1	----	----	1	----	----	----	----
	Females	4	2	[c] 2	----	----	----	----	----	----
Lenawee	Total	30	15	3	8	3	----	1	----	----
	Males	19	8	----	4	3	----	1	----	----
	Females	11	4	2	2	----	----	----	----	----
	One of each	------	3	1	2	----	----	----	----	----
Livingston	Total	8	4	1	----	----	----	1	----	2
	Males	3	1	----	----	----	----	----	----	[a] 1
	Females	5	2	1	----	----	----	1	----	----
	One of each	------	1	----	----	----	----	----	----	[d] 1
Macomb	Total	14	7	1	----	4	----	----	----	2
	Males	8	2	----	----	----	----	----	----	[e] 2
	Females	6	1	1	----	----	----	----	----	----
	One of each	------	4	----	----	4	----	----	----	----

[a] Father native, 1 pair. [b] Father foreign, 2 pairs. [c] Indian, 1 pair. [d] Father foreign, 1 pair. [e] Father native, 1 pair, and father foreign, 1 pair.

Digitized by Google

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS. Native. Both parents from same State.	Native. From different States.	Foreign. Both from same country.	Foreign. From different countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
Manistee	Total	4	2	----	----	1	----	----	----	1
	Males	3	1	----	----	----	----	----	----	1
	Females	1	----	----	----	----	----	----	----	----
	One of each	----	1	----	----	1	----	----	----	----
Marquette	Total	18	9	2	1	4	1	----	----	1
	Males	6	1	1	----	----	----	----	----	----
	Females	12	4	[a] 1	----	[a] 2	1	----	----	----
	One of each	----	4	----	[b] 1	2	----	----	----	[c] 1
Mason	Total	2	1	----	----	1	----	----	----	----
	Males	1	----	----	----	----	----	----	----	----
	Females	1	----	----	----	----	----	----	----	----
	One of each	----	1	----	----	1	----	----	----	----
Midland	Total	2	1	----	1	----	----	----	----	----
	Females	2	1	----	1	----	----	----	----	----
Monroe	Total	22	11	7	1	2	----	----	----	1
	Males	10	3	2	----	1	----	----	----	----
	Females	12	4	3	----	----	----	----	----	[d] 1
	One of each	----	4	2	1	1	----	----	----	----
Montcalm	Total	4	2	1	1	----	----	----	----	----
	Males	4	2	1	1	----	----	----	----	----
Muskegon	Total	10	5	----	1	1	----	1	1	1
	Males	3	----	----	----	----	----	----	----	----
	Females	7	2	----	[e] 1	1	----	----	----	----
	One of each	----	3	----	----	----	----	[e] 1	[e] 1	[f] 1
Newaygo	Total	6	3	1	1	----	----	----	----	1
	Males	4	1	----	1	----	----	----	----	----
	Females	2	----	----	----	----	----	----	----	----
	One of each	----	2	1	----	----	----	----	----	1

[a] Still-born, 1 pair. [b] Mulatto, 1 pair. [c] Illegitimate, 1 pair,—mother foreign.
[d] "American," 1 pair, called unknown. [e] Color unknown. [f] Father native, 1 pair.

Digitized by Google

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS. Native. Both parents from same State.	Native. From different States.	Foreign. Both from same country.	Foreign. From different countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
Oakland	Total	16	8	2	2	3	----	1	----	----
	Males	10	4	1	2	1	----	----	----	----
	Females	6	2	1	----	----	----	1	----	----
	One of each	------	2	----	----	2	----	----	----	----
Oceana	Total	4	2	1	1	----	----	----	----	----
	Males	2	------	----	----	----	----	----	----	----
	Females	2	------	----	----	----	----	----	----	----
	One of each	------	2	1	1	----	----	----	----	----
Osceola	Total	4	2	1	----	----	----	----	1	----
	Males	2	------	----	----	----	----	----	----	----
	Females	2	------	----	----	----	----	----	----	----
	One of each	------	2	1	----	----	----	----	1	----
Ottawa	Total	18	9	2	----	1	----	1	----	5
	Males	12	4	1	----	1	----	1	----	[a] 1
	Females	6	1	----	----	----	----	----	----	[b] 1
	One of each	------	4	1	----	----	----	----	----	[c] 3
Saginaw	Total	22	11	3	1	6	----	1	----	----
	Males	13	3	----	1	2	----	----	----	----
	Females	9	1	1	----	----	----	----	----	----
	One of each	------	7	2	----	4	----	1	----	----
Sanilac	Total	6	3	----	----	1	2	----	----	----
	Males	5	2	----	----	1	1	----	----	----
	Females	1	------	----	----	----	----	----	----	----
	One of each	------	1	----	----	----	1	----	----	----
Shiawassee	Total	10	5	----	3	----	----	1	----	1
	Males	2	------	----	----	----	----	----	----	----
	Females	8	3	----	2	----	----	1	----	----
	One of each	------	2	----	1	----	----	----	----	1

[a] Father foreign, 1 pair. [b] "American"—called unknown—1 pair, and father foreign, 1 pair. [c] Father native, 2 pairs, and father foreign, 1 pair.

Digitized by Google

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	Nativity of Parents.						
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			
St. Clair	Total	26	13	1	2	8	----	----	1	1
	Males	14	6	1	2	2	----	----	----	[a] 1
	Females	12	5	----	----	4	----	----	1	----
	One of each	------	2	----	----	2	----	----	----	----
St. Joseph	Total	6	3	----	1	1	----	----	1	----
	Males	3	1	----	----	1	----	----	----	----
	Females	3	1	----	----	----	----	----	1	----
	One of each	------	1	----	1	----	----	----	----	----
Tuscola	Total	6	3	----	1	----	----	----	----	2
	Males	4	1	----	----	----	----	----	----	[b] 1
	Females	2	------	----	----	----	----	----	----	----
	One of each	------	2	----	1	----	----	----	----	[a] 1
Van Buren	Total	14	7	3	1	2	----	----	----	1
	Males	7	1	----	[c] 1	----	----	----	----	----
	Females	7	1	----	----	1	----	----	----	----
	One of each	------	5	3	----	1	----	----	----	[b] 1
Washtenaw	Total	16	8	2	1	4	----	----	1	----
	Males	9	3	----	----	3	----	----	----	----
	Females	7	2	2	----	----	----	----	----	----
	One of each	------	3	----	[d] 1	1	----	----	1	----
Wayne	Total	64	32	2	1	20	5	2	----	2
	Males	38	12	----	1	7	2	----	----	[e] 2
	Females	26	6	----	----	5	----	1	----	----
	One of each	------	14	2	----	8	3	1	----	----

[a] Father foreign, 1 pair. [b] Father native, 1 pair. [c] Mulatto, 1 pair. [d] Black, 1 pair. [e] "American"—called unknown, 1 pair, and father foreign, 1 pair.

Digitized by Google

TABLE XIII.—*Occupations of Fathers of Twins born in Michigan during the year 1871, according to the Returns.*

OCCUPATIONS.	No. of each.	OCCUPATIONS.	No. of each.
Of all occupations	298	Jeweler	1
Banker	1	Laborers	31
Blacksmiths	7	Landlord	1
Brick-makers	2	Locksmith	1
Builders	2	Lumbermen	3
Butchers	2	Machinist	1
Cabinet-maker	1	Masons	2
Carpenters	12	Mechanic	1
Carpenter and joiners	2	Merchants	3
Cigar-maker	1	Millwright	1
Clerk	1	Miner	1
Clothing merchants	2	Peddlers	2
Cooper	1	Physician	1
"Crippled Soldier"	1	Plasterer	1
Day-laborer	1	Preacher	1
Dept. County Clerk	1	Sailors	3
Druggist	1	Saloon-keepers	2
Engineers	3	Sawyers	2
Farmers	180	Ship-carpenter	1
Gardener	1	Shoe-makers	5
Grocer	1	Tailors	2
Hunter	1	Teamster	1
Insurance Agents	2	Watch-maker	1
Iron Founder	1	Unknown	3

Digitized by Google

TABLE XIV.—*Exhibiting, by Sex, the Parent-Nativity, and by Sex and Months the Number, of Stillbirths in Michigan during the Year 1871.*

Sex.	Year 1871.	Months.													Nativity of Parents.														
															Parents born in Mich.		Native.			Foreign.					Mother unk'n.		Father unk'n.		
																									Father.		Mother.		
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Father.	Mother.	Total.	Same State.	Different States.	Total.	Same country.	Different countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Both unknown.
Total	88	1	14	8	5	4	10	10	4	4	12	4	9	3	18	19	35	21	14	33	28	5	4	2	2	6	2	----	4
Males	44	----	6	[a] 6	4	2	[b c] 4	3	4	3	4	2	5	1	11	10	21	10	[a] 11	15	[c] 14	1	1	1	1	3	[b] 1	----	1
Females	27	----	4	2	1	----	4	2	----	1	[d e] 6	2	[a f] 4	1	[e] 6	[e] 6	10	[d e] 9	[a] 1	9	6	[f] 3	3	1	1	3	----	----	----
Unknown	17	[a] 1	[a] 4	----	----	2	2	[a] 5	----	----	2	----	----	1	1	3	4	2	[a] 2	9	[a] 8	1	----	----	----	----	1	----	[a] 3

[a] Color unknown, 1. [b] Black, 1. [c] One twin. [d] Mulatto, 1. [e] One pair twins. [f] One pair twins.

Digitized by Google

TABLE XV.—*Parent-Nativity of Still-born Children,—Exhibiting, by Sex, the Number and Per Cent. of Total Number Born in Michigan during the Year 1871, of Parents who were Natives of the same, and of Different States or Countries.*

NATIVITY OF PARENTS.	STILL-BORN CHILDREN.							
	NUMBER.				PER CENT. OF EACH PARENT-NATIVITY.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities	88	44	27	17	100.00	100.00	100.00	100.00
Same American or Foreign State	49	24	15	10	55.68	54.55	55.56	58.82
Different American or Foreign State	19	12	4	3	21.59	27.27	14.81	17.64
Foreign Father and Native Mother	4	1	3	....	4.54	2.27	11.11	.....
Foreign Mother and Native Father	2	1	1	....	2.27	2.27	3.70	.....
Unknown Mother Father Native	2	1	1	....	2.27	2.27	3.70	.....
Unknown Mother Father Foreign	6	3	3	....	6.82	6.82	11.11	.....
Unknown Father Mother Native	2	1	....	1	2.27	2.27	.....	5.88
Both Unknown	4	1	....	3	4.54	2.27	.....	17.64
Different State or Country	25	14	8	3	*28.40	31.81	29.62	17.64
Native	35	21	10	4	39.77	47.72	37.03	23.53
Foreign	33	15	9	9	37.50	34.09	33.33	52.94

* Compare with same statement for twins in Table XI.

That there were 88 stillbirths returned for the year 1871 against 74 for 1870 does not necessarily imply that the number which actually occurred was greater in the last named year. Unfortunately for the cause of truth in this line of study, the people generally, and even the supervisors, seem to think that it is not important to record a birth, except of a child born alive, and then not if the child dies soon after birth. It is to be hoped that they may soon realize that all facts which bear directly upon the life and death of human beings are important and worthy of record.

Digitized by Google

The order of greatest number of stillbirths by months in 1871 was as follows: February, 14; October, 12; June, 10; July, 10; December, 9; March, 8; April, 5; May, 4; August, 4; September, 4; November, 4; and January, 1. This order may be compared with that of the total births by referring to Table II., page 2.

The proportion of each sex among still-born children in 1871 was 162.96 males to 100 females. This subject will be further considered in connection with the study of the causes influencing the sex of offspring. In the last Report it was suggested that the causes of the very great excess of males still-born were the larger heads and more sensitive nervous organizations of male infants.

Digitized by Google

TABLE XVI.—*Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan during the Year ending December 31st, 1871.*

SEX.	Year 1871.	Months.												Nativity of Mothers.							Nativity of Fathers.						
														Native.			Foreign.				Native.			Foreign.			
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.	Born in Michigan.	Born in other States.	Total.	Born in Canada.	Born in other Countries.	Unknown.	Total.	Born in Michigan.	Born in other States.	Total.	Born in Canada.	Born in other Countries.	Unknown.
Total	188	10	11	17	17	14	26	13	13	20	16	13	13	75	47	28	74	38	36	34	26	17	9	21	11	10	136
Males	80	5	3	5	9	7	16	7	4	8	8	5	3	40	27	13	32	16	16	8	14	9	5	6	3	3	60
Females	100	4	8	12	8	6	9	6	9	12	8	8	10	34	19	15	41	21	20	25	12	8	4	15	8	7	73
Unknown	8	1	----	----	----	1	1	----	----	----	----	----	----	1	1	----	1	1	----	1	----	----	----	----	----	----	8

Digitized by Google

TABLE XVII.—*Exhibiting, by Color and by Sex, the Population June 1, 1870, the Number of Illegitimate Children Born in Michigan during the Year 1871, the Per Cent. of such Children to Inhabitants, the Per Cent. of each Sex to the Total of both Sexes, and the Number of Inhabitants to each Illegitimate Child born.*

COLOR OR RACE.	SEX.	Population June 1, '70, represen'd by births in 1871.	Total Illegitimate births.	Per cent. of births to population.	Per cent. of each sex to total of both sexes.	No. of Inhabita'ts to one Illegitim'e child of the same color.
All colors	Total	1,147,234	183	.015	.....	6,269
	Males	597,768	80	.013	44.44	.....
	Females	549,466	100	.018	55.55	.....
	Unknown	.....	3	.....	.....	.....
White	Total	1,131,430	154	.013	.....	7,346
	Males	589,550	66	.011	43.42	.....
	Females	541,880	86	.015	56.57	.....
	Unknown	.....	2	.....	.....	.....
Black	Total	5,359	9	.167	.....	595
	Males	2,966	[a] 6	.202	66.66	.....
	Females	2,393	[b] 3	.125	33.33	.....
Mulatto	Total	6,145	2	.032	.....	3,072
	Males	3,106	1	.032	50.00	.....
	Females	3,039	1	.032	50.00	.....
Indian	Total	4,300	8	.186	.....	537
	Males	2,146	[c] 4	.186	50.00	.....
	Females	2,154	[d] 4	.185	50.00	.....
Unknown color	Total	.....	10	.....	.....	.....
	Males	.....	3	.....	33.33	.....
	Females	.....	6	.....	66 66	.....
	Unknown	.....	1	.....	.....	.....
Black & Mulatto	Total	11,504	11	.095	.....	1,045
	Males	6,072	7	.115	63.63	.....
	Females	5,432	4	.073	36.36	.....

[a] "Colored," 2; "Negro," 1. [b] "Colored," 2; "African," 1. [c] "¾ White," 1; and "⅛ White," 1. [d] "⅛ White," 1.

Digitized by Google

TABLE XVIII.—*Exhibiting the Number of Males to 100 Females, and by Sex the Number and Per Cent. of Total Number of Illegitimate Children Born of Native and of Foreign Parents in Michigan during the Year 1871.*

NATIVITY OF PARENTS.		ILLEGITIMATE CHILDREN.								
		Number of Males to 100 Females.	NUMBER.				PER CENT. OF EACH PARENT-NATIVITY.			
			Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities		80.	188	80	100	3	100.00	100.00	100.00	100.00
Mothers	Native	117.	75	40	34	1	40.98	50.00	34.00	33.33
	Foreign	78.	74	32	41	1	40.43	40.00	41.00	33.33
	Unknown	32.	34	8	25	1	18.58	10.00	25.00	33.33
Fathers	Native	116.	26	14	12	....	14.21	17.50	12.00	.....
	Foreign	40.	21	6	15	....	11.47	7.50	15.00	.....
	Unknown	82.	136	60	73	3	74.31	75.00	73.00	100.00

TABLE XIX.—*Exhibiting the Details concerning Triplet Children Born in Michigan during the Year 1871.*

COUNTIES.	CHILDREN.				PARENTS.		
	Months of birth.	Color.	SEX.		Birthplace of Father.	Birthplace of Mother.	Occupation of Father.
			Male.	Female.			
Isabella	October.	White.	....	3	Ohio.	Michigan.	Farmer.
Lenawee	May.	White.	3	....	Michigan.	Michigan.	Farmer.
Wayne	October.	White.	1	2	Canada.	Canada.	Carpenter.

Digitized by Google

TABLE XX.—*Exhibiting, for the State and Counties, the Number of Females aged 16 to 45 in Michigan June 1, 1870, the Number of such Females to one Child, to one Illegitimate Child, and to one Pair of Twins, Born in Michigan during the Year 1871; the Number of Males to 100 Females among Twins; and the Number of Illegitimate and of Still-born Children Born during the Year 1871.*

STATE AND COUNTIES.	Female population aged 16 to 45, June 1, 1870, represented by births, in 1871. [a]	Per cent. of total births in 1871 to females aged 16 to 45, June 1, 1870. [b]	No. of females aged 16 to 45, June 1, 1870, to one child born in 1871. [b]	No. of females aged 16 to 45, June 1, 1870, to one illegitimate child born in 1871. [b]	No. of females aged 16 to 45, June 1, 1870, to one pair of twins born in 1871. [b]	Twin children,—No. of males to 100 females.	No. of illegitimate children born in 1871.	No. of stillbirths in 1871.
State	247,142	10.51	9.50	2,358	829	113	105	83
Alcona	[c] 157	14.64	6.82	[d]	[e]	[e]	------	----
Allegan	6,681	9.29	10.75	6,681	556	200	1	----
Alpena	548	6.75	14.81	[d]	548	100	------	----
Antrim	387	11.88	8.41	387	387	[f]	1	----
Barry	4,722	9.38	10.65	1,574	1,180	33	3	1
Bay	2,544	18.31	5.45	2,544	1,272	[g]	1	4
Benzie	406	16.50	6.05	[d]	406	100	------	----
Berrien	7,591	7.86	13.57	1,265	2,530	100	6	3
Branch	5,941	6.95	14.38	1,980	1,980	50	3	----
Calhoun	8,377	8.35	11.96	2,792	1,196	75	3	8
Cass	4,192	8.13	12.29	4,192	1,397	50	1	4
Charlevoix	263	20.15	4.96	263	[e]	[e]	1	----
Cheboygan	402	11.94	8.37	[d]	402	100	------	----
Chippewa	286	8.74	11.44	[d]	[e]	[e]	------	----
Clare	37	67.56	1.48	[d]	[e]	[e]	------	----
Clinton	4,860	11.50	8.69	[d]	694	180	------	4

[a] Law of Michigan limits age of marriage of females to not less than that of sixteen years.
[b] Only population June 1, 1870, represented by births in 1871 is used in computing statements for this column.
[c] Includes population of Oscoda county.
[d] No illegitimate births returned.
[e] No twin births returned.
[f] No males.
[g] No females.

Digitized by Google

TABLE XX.—CONTINUED.

COUNTIES.	Female population aged 16 to 45, June 1, 1870, represented by births in 1871. [a]	Per cent. of total births in 1871 to females aged 16 to 45, June 1, 1870. [b]	No. of females aged 16 to 45, June 1, 1870, to one child born in 1871. [b]	No. of females aged 16 to 45, June 1, 1870, to one illegitimate child born in 1871. [b]	No. of females aged 16 to 45, June 1, 1870, to one pair of twins born in 1871. [b]	Twin children,—No. of males to 100 females.	No. of illegitimate children born in 1871.	No. of stillbirths in 1871.
Delta	285	32.63	3.06	285	285	e	1	....
Eaton	5,524	9.19	10.87	c	502	144	.....	6
Emmet	247	18.62	5.36	49	247	f	5	....
Genesee	7,554	7.68	13.09	2,518	944	220	3	....
Grand Traverse	881	12.71	7.86	881	881	e	1	....
Gratiot	2,373	11.16	8.95	c	593	300	.....	....
Hillsdale	7,016	8.19	12.20	7,016	1,754	60	1	....
Houghton	1,752	22.77	4.39	1,752	584	100	1	....
Huron	1,532	18.34	5.45	766	510	100	2	....
Ingham	5,342	10.61	9.42	1,780	1,335	33	3	5
Ionia	4,738	9.32	10.72	717	717	100	8	....
Iosco	g 640	8.59	11.63	c	640	100	.....	....
Isabella	784	17.72	5.64	784	784	100	1	....
Jackson	8,025	8.54	11.69	8,025	1,003	33	1	....
Kalamazoo	7,304	7.10	14.07	2,434	1,217	100	3	1
Kalkaska	71	39.43	2.53	c	d	d	.....	....
Kent	11,107	9.22	10.83	3,702	793	155	3	2
Keweenaw [h]	.....	.....	.....	.....	.....	.....	.....	....
Lake	108	42.59	2.34	c	108	100	.....	....
Lapeer	4,456	10.52	9.50	1,114	891	67	4	2
Leelanaw	885	15.48	6.45	295	295	50	3	....
Lenawee	10,458	7.20	13.88	5,229	697	173	2	2
Livingston	4,094	7.91	12.63	c	1,023	60	.....	1
Mackinac [h]	.....	.....	.....	.....	.....	.....	.....	....
Macomb	5,664	11.15	8.96	1,416	809	133	4	12
Manistee	1,231	12.10	8.26	c	615	300	.....	....
Manitou	135	3.70	27.00	c	d	d	.....	....

[a] Law of Michigan limits age of marriage of females to not less than that of sixteen years.
[b] Only population June 1, 1870, represented by births in 1871 is used in computing statements for this column.
[c] No illegitimate births returned.
[d] No twin births returned.
[e] No males. [f] No females.
[g] Includes population of Ogemaw county. [h] No returns of births.

Digitized by Google

TABLE XX.—CONTINUED.

COUNTIES.	Female population aged 16 to 45, June 1, 1870, represented by births in 1871. [a]	Per cent. of total births in 1871 to females aged 16 to 45, June 1, 1870. [b]	No. of females aged 16 to 45, June 1, 1870, to one child born in 1871. [b]	No. of females aged 16 to 45, June 1, 1870, to one illegitimate child born in 1871. [b]	No. of females aged 16 to 45, June 1, 1870, to one pair of twins born in 1871. [b]	Twin children,—No. of males to 100 females.	No. of illegitimate children born in 1871.	No. of stillbirths in 1871.
Marquette	2,695	23.15	4.31	336	299	50	8	11
Mason	423	14.89	6.71	e	423	100	------	----
Mecosta	1,165	12.87	7.76	1,165	d	d	1	----
Menominee	42	11.90	8.40	c	d	d	------	----
Midland	633	14.53	6.88	c	633	e	------	----
Missaukee	20	30.00	3.33	c	d	d	------	----
Monroe	5,594	11.04	9.05	1,864	508	83	3	1
Montcalm	2,772	11.29	8.85	2,772	1,386	f	1	----
Muskegon	2,714	12.60	7.93	1,357	542	43	2	----
Newaygo	1,223	10.99	9.09	c	409	200	------	----
Oakland	9,158	6.15	16.23	9,158	1,144	167	1	----
Oceana	1,516	11.94	8.37	1,516	758	100	1	----
Ontonagon	491	15.27	6.54	c	d	d	------	3
Osceola	408	23.28	4.29	c	204	100	------	----
Ottawa	5,128	13,78	7.25	5,128	569	200	1	1
Presque Isle	56	17.85	5.60	c	d	d	------	----
Saginaw	7,954	12.87	7.76	3,977	723	144	2	----
Sanilac	2,572	12.71	7.86	2,572	857	500	1	3
Schoolcraft g	--------	--------	--------	--------	--------	--------	------	----
Shiawassee	4,545	10.12	9.88	649	909	25	7	2
St. Clair	7,407	12.75	7.83	3,703	569	117	2	5
St. Joseph	5,797	7.19	13.90	1,932	1,932	100	3	----
Tuscola	2,734	12.87	7.76	1,367	911	200	2	----
Van Buren	6,306	9.33	10.65	2,102	900	100	3	----
Washtenaw	9,221	7.93	12.59	9,221	1,152	129	1	2
Wayne	25,860	14.69	6.80	c	808	146	------	----
Wexford	103	12.62	7.92	c	d	d	------	----

[a] Law of Michigan limits age of Marriage of females to not less than that of sixteen years.
[b] Only population June 1, 1870, represented by births in 1871, is used in computing statements for this column.
[c] No illegitimate births returned.
[d] No twin births returned. [e] No males.
[f] No females. [g] No returns of births.

Digitized by Google

TABLE XXI.—*Exhibiting the Number of Females Aged 16 to 45, and, by Sex and by Color, the Number of Inhabitants June 1, 1870, in Counties and Townships not represented by Returns of Births in 1871.*

STATE AND COUNTIES.	TOWNSHIPS FROM WHICH NO RETURNS WERE RECEIVED.	POPULATION JUNE 1, 1870.				WHITE.			BLACK.			MULATTO.			INDIAN.		
		Total.	Males.	Females.	Females aged 16 to 45.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
State		37,048	20,483	16,565	7,122	36,321	20,126	16,195	162	81	81	78	34	44	487	242	245
Bay	Bangor	3,606	2,088	1,568	762	3,585	2,028	1,557	5	4	1	11	1	10	5	5	----
Benzie	Inland	204	107	97	46	204	107	97	----	----	----	----	----	----	----	----	----
Cass	La Grange	1,885	1,000	885	223	1,818	966	847	58	26	32	14	8	6	----	----	----
Charlevoix	Evangeline	90	53	37	14	90	53	37	----	----	----	----	----	----	----	----	----
	Norwood	182	91	91	41	182	91	91	----	----	----	----	----	----	----	----	----
Chippewa	Sugar Island	238	133	105	44	150	82	68	----	----	----	----	----	----	88	51	37
Clare	[a] Surrey	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
	Winfield	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Delta	Delton [b]	833	544	289	125	824	541	283	----	----	----	----	----	----	9	3	6
	Masonville	152	105	47	13	152	105	47	----	----	----	----	----	----	----	----	----

[a] Unable to ascertain population; organized since census was taken.
[b] Township of Delton was divided into townships of Fairbanks and Sack Bay in March, 1872. Returns from Sack Bay but none from Fairbanks.

Digitized by Google

TABLE XXI.—CONTINUED.

COUNTIES.	TOWNSHIPS FROM WHICH NO RETURNS WERE RECEIVED.	POPULATION JUNE 1, 1870.				WHITE.			BLACK.			MULATTO.			INDIAN.		
		Total.	Males.	Females.	Females aged 16 to 45.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Houghton	Hancock	2,701	1,636	1,065	423	2,698	1,632	1,061	6	3	3	1	----	1	1	1	----
	Portage	1,541	782	759	337	1,522	771	751	8	3	----	10	4	6	6	4	2
Huron	White Rock	270	142	128	61	270	142	128	----	----	----	----	----	----	----	----	----
Ingham	Onondaga	1,227	630	597	264	1,226	630	596	----	----	----	1	----	1	----	----	----
Ionia	Otisco	1,570	799	771	349	1,570	799	771	----	----	----	----	----	----	----	----	----
Isabella	Sherman	134	83	51	25	134	83	51	----	----	----	----	----	----	----	----	----
Manistee	Morilla	129	74	55	20	129	74	55	----	----	----	----	----	----	----	----	----
Mason	Hamlin	124	80	44	24	117	77	40	----	----	----	----	----	----	7	3	4
	Pere Marquette	955	547	408	206	955	547	408	----	----	----	----	----	----	----	----	----
Mecosta	Mecosta	263	143	120	58	258	142	116	----	----	----	----	----	----	5	1	4
Menominee	Menominee	1,597	1,062	535	277	1,585	1,054	531	6	3	3	3	3	----	3	2	1
Midland	Gladwin [a]	121	84	37	24	121	84	37	----	----	----	----	----	----	----	----	----
	Jasper	139	80	59	24	139	80	59	----	----	----	----	----	----	----	----	----
	Grout [a]	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Digitized by Google

Montcalm	Home	178	101	72	25	178	101	72	----	----	----	----	----	----	----	----	----
	Ferris	494	268	226	93	494	268	226	----	----	----	----	----	----	----	----	----
Muskegon	Eggleston	233	138	95	43	233	138	95	----	----	----	----	----	----	----	----	----
	Muskegon City:																
	First Ward	1,738	917	816	419	1,723	913	810	5	1	4	5	3	2	----	----	----
Newaygo	Bridgeton	397	225	172	71	378	215	163	----	----	----	----	----	----	19	10	9
	Denver	777	412	365	164	777	412	365	----	----	----	----	----	----	----	----	----
Saginaw	St. Charles	1,185	643	542	254	1,129	612	517	1	----	1	----	----	----	55	31	24
Sanilac	Delaware	741	403	338	99	741	403	338	----	----	----	----	----	----	----	----	----
	Elmer [b]	--------	--------	--------	--------	--------	--------	--------	----	----	----	----	----	----	----	----	----
	Moore	113	68	45	19	106	63	43	----	----	----	----	----	----	7	5	2
Wayne	Brownstown	2,037	1,049	988	414	1,934	1,021	963	52	27	25	1	1	----	----	----	----
	Monguagon	1,475	762	713	342	1,460	753	707	15	9	6	----	----	----	----	----	----
	Taylor	867	457	410	141	862	455	407	----	----	----	5	2	3	----	----	----
	Van Buren	1,970	982	988	445	1,959	977	982	11	5	6	----	----	----	----	----	----
Wexford	Colfax	172	94	78	41	169	93	76	----	----	----	3	1	2	----	----	----
	Henderson [b]	--------	--------	--------	--------	--------	--------	--------	----	----	----	----	----	----	----	----	----
Keweenaw	All Townships	4,206	2,327	1,879	727	4,201	2,325	1,876	----	----	----	1	----	1	4	2	2
Mackinac	All Townships	1,715	905	810	334	1,426	775	651	----	----	----	23	11	12	266	119	147
Schoolcraft	All Townships	799	519	280	129	787	514	273	----	----	----	----	----	----	12	5	7

[a] Unorganized County of Gladwin attached to Midland. Population of Grout included in Gladwin.
[b] Unable to ascertain population; organized since census was taken.

Digitized by Google

SEX OF CHILDREN.

In the last Report the study of the conditions controlling the sex of children was commenced, confining the remarks mainly, however, to the evidence derived from the Vital Statistics of this State. The evidence collected since that time in this State and in other localities has been somewhat contradictory, but upon the whole has strengthened a conclusion then arrived at and stated in the last paragraph on page 78, and there seem to be some reasons for believing that, notwithstanding the unreliable character of the evidence upon which it was based, it may prove a true statement of a general fact regarding the birth of human beings everywhere, and, if so, may lead to the determination of the main question. Without giving any especial preference for that view, the evidence on the subject in general will be considered in about the same order as in last report, beginning with the relation of season of the year to sex of children born.

We now have evidence that the exhibits of the relation of births by months in the last Report were not positively reliable. This statement also applies to all statistics of births and deaths in other States which are collected after a year or more time has passed between the time of occurrence and the time of enumeration. The statements of deaths by months in the United States census are also undoubtedly wrong for the same reason. No confidence can be placed in the relative proportion in each month as first returned. For the evidence on this subject the reader is respectfully referred to pages 3 to 12 of this Report. Further discussion of the subject may also be found with the statistics of deaths. The evidence was first published in the introduction to "Statistics of Michigan, 1870." Inasmuch as these corrections are not made in the statistics of the United States census, nor in any other State than this, so far as known to the writer, the same tables and exhibits are again employed here, but, in addition, others are inserted, giving similar material after such correction as the compiler believes to be essential for the purposes of this study. It should be stated, however, that, whether corrected or not, the statistics

Digitized by Google

of births by months are not as satisfactory as it is hoped they may become when a more perfect law shall provide a better method and a more complete enumeration.

EXHIBIT N.—*Births in Michigan during the year 1871, by Sex and Months, equalized to 30.44 days each.*

SEX.	Year 1871.[a]	Months of Births.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Total	25,985	1706	1884	1951	1927	2009	1926	2182	2490	2555	2434	2364	2591	66
Males	13,590	921	989	1030	969	1042	1008	1104	1303	1308	1268	1281	1388	29
Females	12,326	780	890	918	955	960	911	1022	1180	1242	1158	1078	1198	34
Unknown	69	5	5	3	3	7	7	6	7	5	8	5	5	3

[a] The number of births of each sex, and the total number, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. The total number as equalized is seven less than the total number returned.

EXHIBIT O.—*Births in Michigan during the year 1871, by Sex and by Months equalized to 30.44 days each, and by Months the excess of Males over Females. Unknown sex and unknown months excluded.*

	Year 1871.[a]	Months of Births.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Both sexes	25,853	1701	1829	1948	1924	2002	1919	2126	2483	2550	2426	2359	2586
Males	13,561	921	989	1030	969	1042	1008	1104	1303	1308	1268	1281	1388
Females	12,292	780	890	918	955	960	911	1022	1180	1242	1158	1078	1198
Excess of Males over Females	1,269	141	49	112	14	82	97	82	123	66	110	203	190

[a] The number of births of each sex, and the total number of both sexes, as equalized, do not equal the number of births as returned because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. This table excludes births in unknown month and of unknown sex,—132. These and the seven lost in equalizing, added to the number shown in this table make the number as returned by Registration officers.

Digitized by Google

EXHIBIT P.—*Births in Michigan during the year 1871, by Sex and by Months, corrected for Omissions in Enumerating, equalized for Increase of Population during the year covered by the returns, and as thus corrected and equalized for the several months, equalized for months of 30.44 days each.*

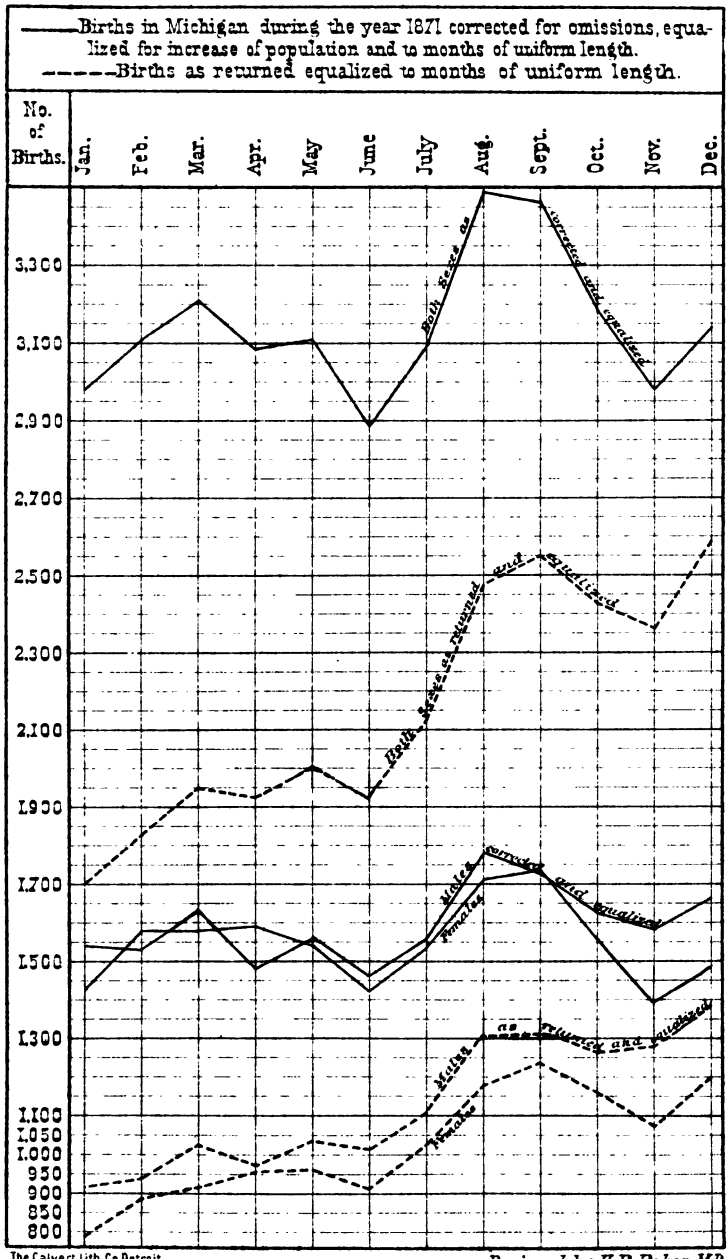
SEX.	Year 1871.	Year 1871.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Both sexes	37,757	2976	3116	3217	3087	3109	2887	3095	3493	3469	3181	2980	3147
Males	19,167	1546	1533	1635	1495	1560	1465	1556	1780	1731	1622	1585	1659
Females	18,590	1430	1583	1582	1592	1549	1422	1539	1713	1738	1559	1395	1488

In this exhibit the number of births is not the actual number returned; neither is it the number which probably occurred, and which is stated on page 5; nor do the numbers agree with those in Exhibit A on page 6, for the reason that in that exhibit the unknown sex are included. But in this exhibit the births are made just as nearly comparable by months as it is possible for the compiler to make them with the material at his command.

The three lines in Exhibit P are represented by the three continuous lines in Diagram No. 1. The three dashed lines in the diagram represent the first three lines in Exhibit O.

Digitized by Google

DIAGRAM No. I.



The Calvert Lith. Co. Detroit.

Designed by H. B. Baker, M.D.

Digitized by Google

Digitized by Google

TABLE XXII.—*Exhibiting by Months the Relation between the total number of Conceptions during certain months of the years 1870–1 and the proportion of each Sex Conceived during the same time and Born during the year ending December 31, 1871.*

CONCEPTIONS FOR BIRTHS IN 1871.[a]

	Months of 1870 and 1871 of Conceptions of Births in 1871, in order by Number, the least Number first.	Total Number of Conceptions.[b]		Months of 1870 and 1871, in order by Number of Males to 100 Females, the greatest number first.	No. of Males to 100 Females.
Less than an Average No. of Conceptions.	April	1,701	More than an Average proportion of Males.	February, 1871	118.88
	May	1,829		April [c]	117.94
	September	1,919		March, 1871	115.94
	July	1,924		June [c]	112.20
	June	1,948		September [c]	110.64
	August	2,002		November	110.42
	October	2,126		Average	110.36
Average		2,154	Less than an Average proportion of Males.	January, 1871 [c]	109.49
More than an Average Number of Conceptions.	February, 1871	2,359		August	108.54
	January, 1871	2,426		October	108.02
	November	2,483		May	105.49
	December	2,550		December [c]	105.31
	March, 1871	2,587		July	101.46

[a] Equalized to months of 30.44 days each, and excluding unknown sex and unknown months.

[b] For the purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

[c] Exceptions to rule that *more* than an average proportion of males were conceived in months in which *more* than an average total number of conceptions occurred, and *less* than an average proportion of males in months in which *less* than an average number of conceptions occurred.

Digitized by Google

TABLE XXIII.—*Exhibiting by Months the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births corrected as if enumerated in Months of Occurrence and equalized to Months of uniform length.*

CONCEPTIONS OF BIRTHS IN 1871. [a]

	Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length. Months arranged in order by number, the least number first.	Number of Conceptions as corrected and equalized.
Less than an Average No. of Conceptions.	September	2,817
	April	2,855
	February, 1871	2,959
	July	2,992
	May	3,000
	August	3,025
	October	3,031
	Average	3,077
More than an Average No. of Conceptions.	June	3,108
	March, 1871	3,137
	January, 1871	3,148
	December	3,421
	November	3,434

	Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if enumerated in Months of occurrence and equalized to Months of uniform length. Months arranged in order by number of males to 100 females,—greatest number first.	No. of Males to 100 Females. Births corrected and equalized.
More than an Average proportion of Males.	February, 1871 [b]	114
	March, 1871	112
	April [b]	108
	January, 1871	104
	November	104
	June	103
	Average	103
Less than an Average proportion of Males.	September	103
	October	101
	August	101
	December [b]	100
	May	97
	July	94

[a] See note [b] to Table XX.

[b] Exceptions to rule that *more* than an average proportion of males were conceived in months in which *more* than an average number of conceptions occurred, and *less* than an average proportion of males in months in which *less* than an average number of conceptions occurred.

Digitized by Google

TABLE XXIV.—*Exhibiting by Months the Relation between the total number of Conceptions, and the total number of Deaths which occurred in the Months of the Years 1870 and 1871 in which were Conceived the Children born during the year ending December 31, 1871.*

Deaths.			Conceptions.		
	Months [a] of 1870 and 1871 of Conceptions of Births in 1871, arranged in order by total number of Deaths, the least number first.	Number of Deaths as Equalized.		Months [a] of 1870 and 1871 of Conceptions of Births in 1871, in order by Number, the least Number first.	No. of Conceptions as Equalized.[b]
Less than the Average No. of Deaths.	January, 1871	519	Less than an Average No. of Conceptions.	April	1,701
	February, 1871	628		May	1,829
	May	677		September [c]	1,919
	April	688		July [c]	1,924
	June	765		June	1,948
	March, 1871	767		August [c]	2,002
				October [c]	2,126
Average		909	Average		2,154
More than the Average No. of Deaths.	December	910	More than an Average No. of Conceptions.	February, 1871 [c]	2,359
	November	947		January, 1871 [c]	2,426
	July	1,064		November	2,483
	October	1,112		December	2,550
	September	1,388		March, 1871 [c]	2,586
	August	1,446			

[a] Equalized to months of 30.44 days each, excluding unknown months.
[b] See note (b) to Table XX.
[c] Exceptions to proposition that there were *more* than an average number of conceptions in months in which *more* than an average number of deaths occurred, and *less* than an average number in months in which *less* than an average number of deaths occurred.

Digitized by Google

TABLE XXV.—*Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths. Deaths, and Births from which Conceptions are estimated, being corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length.*

Deaths.			Conceptions.[a]		
	Months of 1870 and 1871 of Conceptions of Births in 1871, arranged in order by number of Deaths, the least number first. Deaths corrected as if enumerated in Months of occurrence, and equalized to months of uniform length.	No. of Deaths as Corrected and Equalized.		Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length. Months arranged in order by number, the least number first.	No. of Conceptions as corrected and equalized.
Less than the Average Number of Deaths.	January, 1871	1,089	Less than an Average No. of Conceptions.	September	2,817
	February, 1871	1,217		April [b]	2,855
	December	1,282		February, 1871 [b]	2,959
	May	1,340		July	2,992
	November	1,411		May [b]	3,000
	March, 1871	1,438		August	3,025
	June	1,458		October	3,081
	April	1,474		Average	3,077
Average		1,594			
More than the Average No. of Deaths.	October	1,748	More than an Average No. of Conceptions.	June	3,106
	July	1,934		March, 1871	3,137
	September	2,287		January, 1871	3,148
	August	2,511		December	3,421
				November	3,434

[a] See note [b] to Table XX.
[b] Exceptions to rule that there were *more* than an average number of conceptions in months in which *less* than an average number of deaths occurred, and *less* than an average number of conceptions in months in which *more* than an average number of deaths occurred.

The evidence in Tables XXII. to XXVII., inclusive, will be seen to be quite different from that in last Report. It shows, what has been previously remarked, the necessity of examining these statistics for a series of years before basing upon them definite and fixed opinions. It has been ascertained, also, that our knowledge of the proportion of births by months is quite uncertain, and this makes it important to examine this question of sex of children in connection with

Digitized by Google

some other period of time. It has, therefore, been studied by years, and some of the results may be seen in Exhibit R and remarks preceding. Some other evidence, derived from a study of the influence of race, nativity, war, epidemic cholera, etc., has been collected, and may be seen in Table XXVIII., Exhibit Q, and remarks following.

TABLE XXVI.—*Exhibiting by Months the Relation between the number of Deaths and the proportion of each Sex Conceived during the same Months of the years 1870 and 1871; Births and Deaths from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence and Equalized to Months of uniform length.*

Deaths.			Conceptions.[a]		
	Months of 1870 and 1871 of Conceptions of Births in 1871, arranged in order by Number of Deaths, the least Number first. Deaths corrected as if Enumerated in Months of Occurrence, and equalized to Months of uniform length.	No. of Deaths as Corrected and Equalized.		Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length. Months arranged in order by Number of Males to 100 Females, greatest Number first.	No. of Males to 100 Females. Births Corrected and Equalized.
Less than the Average No. of Deaths.	January, 1871	1,089	More than an Average proportion of Males.	February, 1871	114
	February, 1871	1,217		March, 1871	112
	December	1,282		April	108
	May	1,340		January, 1871	104
	November	1,411		November	104
	March, 1871	1,438		June	103
	June	1,458	Average		106
	April	1,474			
Average		1,594	Less than an Average proportion of Males.	September	103
More than the Average No. of Deaths.	October	1,748		October	101
	July	1,934		August	101
	September	2,287		December[b]	100
	August	2,511		May[b]	97
				July	94

[a] See Note b to Table XX.

[b] Exceptions to rule that *more* than an average proportion of males were conceived in months in which *less* than an average number of deaths occurred, and *less* than an average proportion of males in months in which *more* than an average number of deaths occurred.

Digitized by Google

TABLE XXVII.—*Exhibiting, by Months, the Relation between the Total Number of Deaths, and the proportion of each Sex Conceived during the same Months of the Years 1870 and 1871, and Born during the Year ending December 31, 1871.*

Deaths.			Conceptions. [b]		
	Months [a] of 1870 and 1871 of Conceptions of Births in 1871, arranged in order by Total Number of Deaths, the least Number first.	Total No. of Deaths as Equalized.		Months [a] of 1870 and 1871 in order by Number of Males to 100 females, the greatest Number first.	No. of Males to 100 Females.
Less than the Average Number of Deaths.	January, 1871	519	More than an Average proportion of Males.	January, 1871	118.08
	February, 1871	628		April	114.98
	May	677		July *	114.43
	April	688		March, 1871	112.20
	June	765		October *	110.04
	March, 1871	767		Average	109.08
	Average	909	Less than an average proportion of Males.	September	108.81
More than the Average No. of Deaths.	December	910		August	108.07
	November	947		November	107.05
	July	1,064		February, 1871 *	105.50
	October	1,112		May *	105.36
	September	1,388		June *	103.38
	August	1,446		December	101.55

[a] Equalized to months of 30.44 days each, excluding unknown months.
[b] See note [b] to Table XX.
* Exceptions to rule that *more* than an average proportion of males were conceived in months in which *less* than an average number of deaths occurred, and *less* than an average proportion of males in months in which *more* than an average number of deaths occurred.

Digitized by Google

TABLE XXVIII.—*Exhibiting for the Total Births, for the Twins, Illegitimate, and Still-born Children Born in Michigan during the year 1871, the Number of Boys to 100 Girls among such Children, distinguishing by Parent-Nativities, and thus exhibiting the influence of Parent-Nativity upon Sex of Children.*

NATIVITY OF PARENTS.		Births 1871.[a]		Boys to 100 Girls.			
		Males.	Fem'les.	Total[a] Births.	Twins.	Illegitimate.	Still-born.
All Nativities		13,596	12,327	110.29	112.85	80.00	162.96
Both Parents Native		5,848	5,512	106.09	97.01	.....	210.00
Both Parents Foreign		4,680	4,029	116.15	146.51	.....	166.66
Foreign Father, Mother Native		1,148	964	118.56	88.23	.....	33.33
Foreign Mother, Father Native		608	606	100.33	45.45	.....	100.00
One or Both Unknown		1,317	1,216	108.30	125.00	.....	150.00
Mothers	Native	7,069	6,561	107.74	96.02	117.64	176.92
	Foreign	5,444	4,784	113.79	135.05	78.04	160.00
	Unknown	1,083	982	110.28	126.66	32.00	125.00
Fathers	Native	6,913	6,532	105.83	93.10	116.66	191.66
	Foreign	6,227	5,307	117.33	136.89	40.00	126.66
	Unknown	456	483	93.44	100.00	82.19	[b]
One or Both Native		8,134	7,581	107.29	92.59	.....	166.66
One or Both Foreign		6,991	6,062	115.32	128.07	.....	125.00
Both Unknown		222	254	87.40	100.00	.....	[b]
Same Country		10,528	9,541	110.35	115.09	.....	218.75
Different Country		1,751	1,570	111.53	88.88	.....	42.85
Same American or Foreign State		.....	.....	.....	120.64	.....	160.00
Different American or For'n State		.....	.....	.....	106.15	.....	300.00

[a] Excluding unknown sex.
[b] No females.

Digitized by Google

EXHIBIT Q.—*Influence of Parent-Nativity upon Sex of Children, as shown by the Number of Boys to 100 Girls among all Children and among Twins, Illegitimate, and Still-born Children Born in Michigan during the year 1870.*

NATIVITY OF PARENTS.	Births 1870.[a]		Boys to 100 Girls.			
	Males.	Fem'les.	Total Births.[a]	Twins.	Illegitimate.	Still-born.
All Nativities	13,846	12,726	108.80	107.14	108.10	162.50
Both Parents Native	6,463	5,904	109.46	108.02	.....	127.27
Both Parents Foreign	4,483	4,101	109.31	100.00	.....	320.00
Foreign Father, Mother Native	1,144	1,098	104.18	92.30	.....	200.00
Foreign Mother, Father Native	699	625	111.84	211.11	.....	150.00
Mothers.. Native	7,607	7,002	108.64	105.85	107.31	142.85
Mothers.. Foreign	5,182	4,726	109.65	109.17	95.23	271.42
Fathers.. Native	7,162	6,529	109.69	113.45	135.29	130.77
Fathers.. Foreign	5,627	5,199	108.23	98.41	45.45	275.00
One or Both Native	8,306	7,627	108.90	110.66	.....	143.75
One or Both Foreign	6,326	5,824	108.62	105.92	.....	250.00
Same Country	10,946	10,005	109.41	104.96	.....	137.50
Different Country	1,843	1,723	106.96	122.85	.....	480.00
Same American or Foreign State	.....	.....	.....	100.00	.....	185.71
Different American or For'n State	.....	.....	.....	106.66	.....	450.00
Unknown	1,057	998	105.91	108.00	118.04	.....

[a] Unknown sex excluded.

Table XXVIII. and exhibit following contain, in tabular form, such material as was stated in the remarks in last Report, and they embody some material not then collected in a convenient form. They are planned after a table published by J. Stockton Hough, M. D., in the "Philadelphia Medical Times" of December 27, 1873.

For the year 1871 a less number of births were returned

Digitized by Google

than for the previous year, while the proportion of male children was increased from 108.80 to 110.29 boys to 100 girls. The increased proportion of males was greater among twins, being from 107.14 in 1870 to 112.85 boys to 100 girls in 1871.

The number of illegitimate children returned for 1871 was somewhat greater than for 1870. The proportion of males was much less, being 80 boys to 100 girls, while in 1870 there were 108.10.

This evidence is in the same direction as that which led to the statement on page 78 of last Report that, "It seems a fair inference from the evidence in Table XX., that causes tending to increase the birth-rate tend also to increase the proportion of female offspring, this being equivalent to decreasing the proportion of males."

There was other similar evidence in the last Report, which was not then considered as sufficiently reliable to notice. The greater than average proportion of male children of persons of African descent, while the birth-rate of such persons was smaller than the average, was evidence in this direction, as was also the less than average proportion of male children of Indian parents, while the birth-rate among Indians was greater than the average. This may be seen on page 24 of last Report. The evidence is again the same in Table V. of this report, as may be seen by referring to pages 30 to 33.

One more fact, of a different kind, but apparently tending to the same conclusion, may be referred to in this connection. It will be seen by Exhibit R that the birth-rate was materially diminished, in all the cities and States represented, during the war of 1861–5. On page xxii., "Statistics of Mich., 1870," in speaking of the diminished birth-rate in Michigan during the war, the writer remarked: "Some idea of the decrease in the rate may be gained by considering, first, that the per cent. of increase since 1860 of the total population, at all ages, was undoubtedly diminished by the low birth-rate; second, that the per cent. of increase of males aged 1 to 5 fell short of the

Digitized by Google

average increase of males at all ages by nearly 13 per cent., while the per cent. of increase of females aged 1 to 5 fell short of the average of all females by over 17 per cent." Although it is not proven, we may infer from these facts that while the war diminished the birth-rate in Michigan it diminished the births of females to a greater extent than the births of males.

As long ago as 1831, Gouverneur Emerson, M. D., of Philadelphia, "entered into some investigations with the view of ascertaining whether influences might be detected in our locality affecting conceptions. This had been recently done in regard to Paris, by M. Villermé, and the results we arrived at were in singular accordance with his, showing that the population of Philadelphia was subjected to agencies tending to operate unfavorably upon its increase from reproduction." But Dr. Emerson assumed a point which yet remains to be proven, namely, that the proportion of male children is increased or diminished by whatever causes increase or diminish the birth-rate. It will be seen that the writer has collected evidence upon this point, as regards births in Michigan, and, thus far, precisely the reverse of Dr. Emerson's proposition seems most probable.

Dr. Emerson found that whereas in Philadelphia during several years preceding 1833, "the preponderance of male over female births amounted to several hundreds per annum, being 6.29 per cent. for the whole decennial period," he was "surprised to find the amount for 1833 reduced to only 38,' or, as I compute it, about 101 males to 100 females. "In estimating the births for the months of April and May, 1833, we found that the males amounted to 532 and the females to 590, showing a *female* excess of 58." * * * * "Now these months include a period nine months after the time when the cholera prevailed, namely, August and September, 1832." Dr. Emerson certainly shows a decrease of the proportion of males born nine months after the prevalance of cholera, but it seems wonderful that he should have so entirely overlooked the other

Digitized by Google

facts connected with the births as to have concluded that the total birth-rate was lessened. Referring to M. Villermé of Paris, he says, "the results we arrived at were in singular accordance with his." An examination of the statistics which he presented reveals the fact that, so far as they go, they support a proposition exactly the reverse of that which is shadowed forth, but not definitely stated, in Dr. Emerson's paper.*

When the last Report for this State was made the compiler had not seen the original paper by Dr. Emerson, but relied upon statements of those who had seen it. At that time the writer remarked that the evidence which he had collected "seems to be in a direction opposite to some collected elsewhere, if we suppose the generalization embodied in the following quotation [a] to have been sustained by the facts proven." Since that time the compiler has received from its venerable author [b] a copy of the original paper, and a careful study thereof has convinced him of the truth of the main proposition of Dr. Emerson,—the one mentioned in the title of the paper, namely, that there were certain "causes operative in determining the proportions of the sexes at birth," and that during the cholera more than the average proportion of females were conceived; but that the total birth-rate was lessened does not appear to be true. Dr. Emerson himself says, on page 79,[c] that "the total of births during the year 1833 was greater than that of the preceding year." He might also have said that it was greater than that of the succeeding year, but he immediately adds: "Supposing that some error might exist in the calculations for this year, we consulted the original records at the Health Office, and satisfied ourselves that the computations had been correctly made." On page 80[c] he says: "It is proper to state that a slight visitation of epidemic cholera occurred in 1834 chiefly in the month of October, and that the returns of births which took

* On the causes operative in determining the proportions of the sexes at birth. By Gouverneur Emerson, M. D., in American Journal of the Medical Sciences, July, 1848, pp. 78–85.

[a] From Registration Report of Kentucky for the year 1858.

[b] Dr. Emerson died July 2, 1874.

[c] American Journal of the Medical Sciences, July, 1848.

Digitized by Google

place in June, 1835, show a considerable falling off in the male births." Here again he might have added that the statistics show that the number of births for 1835 was greater than for the year preceding or the year succeeding. These facts are entirely in accordance with the proposition on page 78 of our last Report, for here are two cases of a decrease in the proportion of male children attending an increase of the total birth-rate. That cholera should increase the birth-rate seems very strange, at first thought, and it may not be true that it always does. There are, however, some facts connected with the influence of epidemic cholera which seem to explain the matter somewhat, but which, if discussed here, would hinder the question under consideration. Dr. Emerson continues: "In the absence of the necessary data in our own country, we appealed to the ample and accurate records of Paris, where, as is well known, the malignant cholera committed great ravages in 1832. Here we found in a mass of no less than 33,367 births,[a] a similar reduction in the proportion of the males, discovered in the Philadelphia reports." Here again he might have added that, although the proportion of males was diminished, the total birth-rate was increased, for he states the number of births in Paris in 1832 as 31,730, which was 1,637 less than in 1833.

Dr. Wm. Farr states that "the population of England suffered in 1854 from epidemic cholera, which broke out in the previous year (1853), and in 1854 destroyed 20,097 lives."[b] Turning to the first page of the Registrar General's Report, I find that the number of births in 1854 were increased, and the birth-rate was greater than the average during the years 1850 to 1854 inclusive, as determined by computing the per cent. of births to the population there given. On page xiii. of the same Report, it will be seen that the proportion of males was 104.4 males to 100 females, while the average for the years 1850 to 1854 inclusive was 104.6 males to 100 females. This

[a] During the year 1833.
[b] Page 65 Report of Registrar General, 1854.

Digitized by Google

is one more case where the cholera was followed by a slight decrease of the proportion of male children and a slight increase of the total birth-rate. The writer regrets that he cannot trace the effects of the cholera in England in 1854 on the birth-rate in 1855, but he has no Report for that year.

Returning to the statistics of births in Philadelphia, as given by Dr. Emerson, the writer has computed the number of males to 100 females born in each of the years 1820 to 1840, inclusive, also the average number during the whole period of twenty years. Inasmuch as the number of inhabitants in all of these years is not known, there seems to be no better method whereby to learn the comparative birth-rate in the several years than to compare each year with the one immediately preceding and succeeding. This has been done for the births in Philadelphia, and for those in other cities and States so far as statistics were at hand, adding in each instance the total births during three years and dividing by three to obtain the average number of births, then noting in the column of remarks whether the births recorded for the central year were more or less than the average number thus obtained, at the same time stating whether these contained more or less than the average proportion of males, using for this purpose the average proportion of males during the whole series of years observed. The results of this study appear in Exhibit R. If we were to rest the case upon the evidence of the births in Philadelphia during the years 1820 to 1840 alone, it would appear certain that more than an average birth-rate is attended with an excess of female children, and *vice versa*. In those twenty years there were only four exceptions to this rule. Such strong evidence in this direction was indeed surprising to the writer when worked out from the statistics in Dr. Emerson's paper, which, for the last quarter of a century, has been quoted as upholding precisely the opposite of this view.

Since the last report was printed, Dr. J. Stockton Hough of

Digitized by Google

Philadelphia has enunciated a law on this subject.[a] He says: "It is a law that the greater the fecundity the greater the proportion of male births."[b] It will be noticed that this is the same view apparently held by Dr. Emerson, and so frequently referred to during the last twenty-five years. It is not in accordance with the facts stated in Dr. Emerson's paper, as I have attempted to show, but it is supported by the published statistics of births in Philadelphia during the years 1861 to 1873, inclusive, as will be seen by an examination of these statistics as they appear in Exhibit R in this Report. But these last Philadelphia statistics cover a period of only thirteen years, and that in only one city, a very small part of the world comparatively, the whole number of births during those years being only 221,301. This experience is entirely too limited to sustain so important a law, especially when the statistics of births in the same city during twenty years in the past show much stronger evidence in an opposite direction.

In Exhibit R may be seen the evidence on this point, so far as appears from the statistics of births in certain cities, States, and countries for different years, which aggregate 138 separate cases, some being for the same years in different localities. In these 138 cases the rule stated by the writer holds true in 80 cases, does not hold true in 51 cases, and in 7 cases there is doubt. Counting the doubtful cases as all against the proposition, there is a clear majority in its favor. The number of births studied in Exhibit R is 1,396,223, exclusive of 31,496 in Providence studied separately, but included in those for the State of Rhode Island. If the births in England are included the number is 4,476,318. This statement of the number of births considered, does not include the large number of births in Paris referred to as supporting the view, when speaking of the influence of cholera upon the birth-rate; neither does it

[a] Philadelphia Medical Times, December 27, 1873, p. 198, referring to New York Medical Record, June 16 and July 15, 1873, p. 9.
[b] Page 18 of paper read before and published by Social Science Association of Philadelphia, 1874.

Digitized by Google

include the many thousands of births in Michigan during the war of 1861–5, which exhibited such an influence during the war as to support the view first stated by the writer.

Statistics of births are as yet so imperfect that it becomes one to be extremely cautious about enunciating laws based upon such statistics. It is not probable that all births are recorded in any country, State or city. As stated on page 5 of this Report, about 45 per cent. should be added to the births returned in Michigan for the year 1871, in order to exhibit the number which probably occurred during that year.

It has generally been assumed that, although not all births were recorded, the proportion of the sexes might still be correct. There are some facts which bear upon this point which it may be well to state in this connection. During the first year of life many more males die than females. In Michigan, for instance, the proportion during the year 1870 was 121.34, and during the year 1871 it was 129.55 males to 100 females. Therefore if omissions occur in enumerating births because of time passing between their occurrence and enumeration, more males than females would be omitted, for the reason that enumerators do not collect as large a proportion of deaths as they do of births, and many do not record births when the child has died soon after birth. It seems to follow that, other circumstances equal, a less complete than an average collection of births would include a less than average proportion of males, while a more complete enumeration than the average would include more than an average proportion of males. If this is true, then there is a general cause acting upon the enumeration of births in such a way as to tend to neutralize and destroy such evidence as is collected in Exhibit R, and which evidence might, perhaps, be stronger except for this reason. On page 78, Report of Board of Health of Philadelphia for the year 1872, the compiler remarks: "Notwithstanding a gratifying increase in the returns of births and the evidence of improvement in the collection of statistics, a very large proportion of

Digitized by Google

births take place annually that are not reported for registration." Now it is quite possible that the actual fluctuations in the birth-rate in Philadelphia during the years 1861–1873 may have been less than the fluctuations in completeness of registration, in which case we might expect to find just what appears for that city during those years in Exhibit R, namely, that a greater than average number of births was, as a rule, attended with a greater than average proportion of males, which is exactly the opposite of the evidence of the exhibit as a whole. As the exhibit includes nearly four and one-half millions of births, its evidence is stronger than the part referring to Philadelphia alone.

Another disturbing fact relative to the proportion of the sexes should be considered in this connection. Statisticians do not seem to be entirely exempt from the general tendency of mankind to tell more than is known. In a Registration Report now before me the compiler remarks: "It will be seen that no child has been returned [tabulated?] as of 'unknown' sex. This is not precisely in accordance with the face of the assessor's books, * * * but it was not considered advisable to take up so much space in our printed reports with empty columns of 'unknown.' The cases in which the sex was not stated * * * were divided in the proportion of 11 males to 10 females." Returns from one county came in after the tables had been made up, and as the sex was not specified "and the proportion of males to females throughout the State ascertained, that proportion was adopted for the births in that county." This would intensify the evidence in the direction determined by the counties first compiled, whereas it is possible that the real evidence of the births in the last counties heard from might be in an opposite direction. It ought to be entirely unnecessary to remark that there is not a great probability of arriving at the exact truth through such methods of compilation. By examining Exhibit R, it will be seen that in some cases no mention is made of any unknown sex. It is possible that other

Digitized by Google

statisticians than the one just quoted have vitiated their work in the same manner. It is proper to state, however, that the births referred to as compiled by the writer just quoted are not included in Exhibit R.

One more disturbing factor in Exhibit R should be mentioned, that is the influence of the war of 1861–5, which increased the birth-rate throughout the United States during the year 1861 and decreased it during the years 1862–5 inclusive. The method employed in Exhibit R to find the average birth-rate was, as stated in the foot-note c, to add the births for the year preceding and succeeding and divide by three, and this plan was adhered to throughout. It is quite possible that the evidence in the exhibit might be stronger were it not for the disturbing influence of the war; for during the years 1862–5, inclusive, the birth-rate was decreased, but by the method adopted in finding the average, in certain cases some of these years appear to have a greater than average birth-rate.

It will be seen by comparing Exhibit T with Exhibit W that, in a majority of the cases, the proportion of males born during the year 1861 was greater than the average for all years; and by comparing Exhibit U with Exhibit W, it will be seen that the reverse was true of the births during the years 1862–5, inclusive. This evidence seems conclusive that the war decreased the birth-rate and at the same time decreased the births of females in a greater proportion than the births of males. It does not necessarily follow from this alone that all causes tending to decrease the birth-rate tend also to decrease the proportion of female children, but this was indicated in the last Report, and the view is certainly supported by Exhibit R. We have seen that cholera seems to increase the proportion of female children, and we have found that it also increases the total birth-rate. This evidence supports conversely the proposition, which, stated entire, is as follows: Causes tending to increase the birth-rate tend also to increase the proportion of female offspring, while causes which decrease the birth-rate

Digitized by Google

increase the proportion of male offspring, by decreasing the female children to a greater extent than the male children.

EXHIBIT R.—*Proportion of the Sexes at Birth, and the Relation which that proportion bears to an Increased or Diminished Birth-rate, as appears by the Births in the Cities of New York, Philadelphia, and Providence; the States of Vermont, Massachusetts, Rhode Island, Connecticut, and Michigan, and in England, during the Years specified in each case.*

	Year.	Males.	Females.	Unknown Sex.	Total Births.	Males to 100 Femal's	Remarks.[a]
City of New York.	1853	4,899	4,379	9	9,287	111.8	Less than Av. Births, more than Av. Males.
	1854	8,816	8,246	14	17,076	106.9	More than Av. Births, less than Av. Males.
	1855	6,961	6,399	11	13,371	108.7	Less than Av. Births, more than Av. Males.
	1856	8,182	7,400	21	15,603	110.5	More than Av. Births, more than Av. Males.*
	1857	9,068	8,602	15	17,680	105.3	More than Av. Births, less than Av. Males.
	1858	6,380	5,739	13	12,132	111.1	Less than Av. Births, more than Av. Males.
	1859	4,219	3,880	20	8,119	108.7	Less than Av. Births, more than Av. Males.
	1860	3,154	2,833	11	5,998	111.3	Less than Av. Births, more than Av. Males.
	1861	5,072	4,748	49	9,869	106.8	More than Av. Births, less than Av. Males.
	1862	3,927	3,693	13	7,633	106.3	Less than Av. Births, less than Av. Males.*
	1863	3,287	3,071	15	6,373	107.0	Less than Av. Births, less than Av. Males.*
	1864	2,968	2,708	13	5,689	109.6	Less than Av. Births, more than Av. Males.
	1865	61	50	--------	111	122.0	(No proper return.)
	1866	5,202	4,905	10	10,117	106.0	----------(?)----------
	1867	6,397	6,164	8	12,569	103.7	More than Av. Births, less than Av. Males.
	1868	6,531	6,136	5	12,672	106.4	Less than Av. Births, less than Av. Males.*
	1869	7,096	6,835	16	13,947	103.8	More than Av. Births, less than Av. Males.
	1870	7,560	6,910	54	14,524	109.4	Less than Av. Births, more than Av. Males.
	1871	10,749	10,032	40	20,821	107.1	More than Av. Births, less than Av. Males.
	1872	11,282	10,763	23	22,068	104.8	More than Av. Births, less than Av. Males.
1853 to 1872, Inc.[b]		121,745	113,443	360	235,548	107.3	19 cases, 4 exceptions, 1 doubtful.

[a] The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

[b] Except 1865.

* Exceptions to rule that a *more* than average number of births is attended with a *less* than average proportion of males, and *vice versa*.

Digitized by Google

EXHIBIT R.—CONTINUED.

	Year.	Males.	Females.	Unknown Sex.	Total Births.	Males to 100 Femal's	Remarks.[a]
City of Philadelphia.	1820	1,709	1,501	.....	3,201	113.86	[b].....
	1821	2,630	2,417	.....	5,047	108.81	Less than Av. Births, more than Av. Males.
	1822	3,021	2,701	.....	5,722	111.85	More than Av. Births, less than Av. Males.*
	1823	2,977	2.836	.....	5,813	104.97	More than Av. Births, less than Av. Males.
	1824	3,062	2,771	.....	5,833	110.50	Less than Av. Births. more than Av. Males.
	1825	3,444	3,181	.....	6,625	108.27	More than Av. Births, more than Av. Males.*
	1826	3,526	3,219	.....	6,745	109.54	Less than Av. Births, More than Av. Males.
	1827	3,581	3,452	.....	7,033	103.74	Increase of Births over previous year and over Av.—very few Males.
	1828	3,694	3,506	.....	7,200	105.36	Births increased over Av.—few Males.
	1829	3,638	3,357	.....	6,995	108.37	Less than Av. birth-rate —more Males than Av.
	1830	3,996	3,632	.....	7,628	110.02	A marked exception,* more than Av. birth-rate and more than Av. of Males.
	1831	3,787	3,555	.....	7,342	106.53	Less than Av. Births, less than Av. Males.*
	1832	3,834	3,419	.....	7,253	112.14	Less than Av. Births, more than Av. Males.
	1833	3,840	3,802	.....	7,642	101.00	More than Av. Births, less than Av. Males.
	1834	3,937	3,635	.....	7,572	108.31	Less than Av. Births, more than Av. Males.
	1835	4,041	3,815	.....	7,856	105.92	More than Av. Births, less than Av. Males.
	1836	3,864	3,544	.....	7,408	109.03	Less than Av. Births, more than Av. Males.
	1837	4,235	3,953	.....	8,188	107.13	More than Av. Births, less than Av. Males.
	1838	3,982	3,798	.....	7,780	104.84	More than Av. Births, less than Av. Males.
	1839	3,769	3,493	.....	7,262	107.90	Less than Av. Births, more than Av. Males.
	1840	4,223	4,010	.....	8,233	105.31	More than Av. Births, less than Av. Males.
1820 to 1840 Incl.		74,790	69,597	.....	144,387	107.46	20 cases, 4 exceptions.

[a] The average births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

[b] Only nine months of this year are included in the returns.

* Exceptions to rule that *more* than an average number of births is attended with *less* than the average proportion of males, and *less* than the average number of births with *more* than an average proportion of males.

Digitized by Google

EXHIBIT R.—CONTINUED.

	Year.	Males.	Females.	Unknown Sex.	Total Births.	Males to 100 Femal's	Remarks. a
City of Philadelphia.	1860	.....	.....	.....	.....	.....	Only collected for six months of year.
	1861	9,008	8,268	.....	17,271	109.0	More than Av. Births, less than Av. Males.
	1862	7,609	7,132	.....	14,741	106.6	Less than Av. Births, less than Av. Males.*
	1863	8,042	7,251	.....	15,293	110.9	More than Av. Births, more than Av. Males.*
	1864	8,237	7,354	.....	15,591	112.0	More than Av. Births, more than Av. Males.*
	1865	8,187	7,241	.....	15,428	113.0	Less than Av. Births, more than Av. Males.
	1866	9,196	8,241	.....	17,437	111.5	More than Av. Births, more than Av. males.*
	1867	8,897	8,110	.....	17,007	109.7	Less than Av. Births, less than Av. Males.*
	1868	8,988	8,271	.....	17,259	108.6	More than Av. Births, less than Av. Males.
	1869	8,861	8,099	.....	16,960	109.4	Less than Av. Births, less than Av. Males.*
	1870	9,134	8,060	.....	17,194	113.3	Less than Av. Births, more than Av. Males.
	1871	9,657	8,689	.....	18,346	111.1	Less than Av. Births, more than Av. Males.
	1872	10,551	9,521	.....	20,072	110.8	More than Av. Births, more than Av. Males.*
	1873	9,845	8,857	.....	18,702	111.1	.....(?).....
	1861 to 1873, Incl.	116,212	105,089	.....	221,301	110.5	13 cases, 7 exceptions, 1 doubtful.
City of Providence.	1854	711	658	.....	1,369	108.0	Less than Av. Births, more than Av. Males.
	1855	807	793	.....	1,600	101.7	More than Av. Births, less than Av. Males.
	1856	891	784	.....	1,675	113.6	More than Av. Births, more than Av. Males.*
	1857	872	816	.....	1,688	106.8	Less than Av. Births, more than Av. Males.
	1858	890	834	.....	1,724	106.7	More than Av. Births, more than Av. Males.*
	1859	825	768	.....	1,593	107.4	Less than Av. Births, more than Av. Males.
	1860	809	839	.....	1,648	96.4	Less than Av. Births, less than Av. Males.*
	1861	936	789	.....	1,725	118.6	More than Av. Births, more than Av. Males.*
	1862	791	738	.....	1,529	107.2	More than Av. Births, more than Av. Males.*
	1863	689	618	.....	1,307	111.4	Less than Av. Births, more than Av. Males.
	1864	663	681	.....	1,344	97.3	More than Av. Births, less than Av. Males.
	1865	691	607	.....	1,298	113.8	Less than Av. Births, more than Av. Males.
	1866	849	783	.....	1,632	108.4	More than Av. Births, more than Av. Males.*

a The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

* Exceptions to rule that a *more* than average number of births is attended with a *less* than average proportion of males, and *vice versa*.

Digitized by Google

EXHIBIT R.—CONTINUED.

Year.		Males.	Females.	Unknown Sex.	Total Births.	Males to 100 Femal's	Remarks.[a]
Providence.—Con.	1867	880	794	--------	1,624	104.5	Less than Av. Births, less than Av. Males.*
	1868	944	922	--------	1,866	102.4	More than Av. Births, less than Av. Males.
	1869	945	874	--------	1,819	108.1	Less than Av. Births, more than Av. Males.
	1870	967	922	--------	1,889	104.8	----------(?)----------
	1871	956	1,004	--------	1,960	95.6	Less than Av. Births, less than Av. Males.*
	1872	1,079	1,127	--------	2,206	95.7	More than Av. Births, less than Av. Males.
1854 to 1872, Incl.		16,145	15,351	--------	31,496	105.2	19 cases, 8 exceptions, 1 doubtful.
Vermont.	1857	3,288	3,071	58	6,412	106.9	----------(?)----------
	1858	3,294	3,142	41	6,477	104.8	Less than Av. Births, less than Av. Males.*
	1859	3,351	3,155	39	6,545	106.2	More than Av. Births, more than Av. Males.*
	1860	3,255	3,186	10	6,451	102.1	Less than Av. Births, less than Av. Males.*
	1861	3,354	3,170	43	6,567	105.8	More than Av. Births, less than Av. Males.
	1862	2,831	2,650	24	5,505	106.8	Less than Av. Births, more than Av. Males.
	1863	2,719	2,624	26	5,369	103.6	More than Av. Births, less than Av. Males.
	1864	2,439	2,264	50	4,753	107.7	Less than Av. Births, More than Av. Males.
	1865	2,761	2,564	28	5,353	107.6	Less than Av. Births, more than Av. Males.
	1866	3,376	3,113	43	6,532	108.4	More than Av. Births, more than Av. Males.*
	1867	3,272	3,144	52	6,468	104.0	Less than Av. Births, less than Av. Males.*
	1868	3,873	3,605	32	7,510	107.4	More than Av. Births, more than Av. Males.*
	1869	3,760	3,599	22	7,381	104.4	Less than Av. Births, less than Av. Males.*
	1870	4,008	3,645	18	7,671	109.9	----------(?)----------
1857 to 1870, Inc.		45,576	42,982	486	88,994	106.1	14 cases, 7 exceptions, 2 doubtful.
Massachusetts.	1849	13,329	12,268	171	25,768	108.6	Less than Av. Births, more than Av. Males.
	1850	14,137	13,392	135	27,664	105.5	More than Av. Births, less than Av. Males.
	1851	14,949	13,613	119	28,681	109.8	Less than Av. Births, more than Av. Males.
	1852	15,246	14,432	124	29,802	105.6	More than Av. Births, less than Av. Males.
	1853	15,798	14,965	157	30,920	105.5	----------(?)----------
1849 to 1853, Incl.		73,459	68,665	706	142,830	106.9	5 cases, no exceptions, 1 doubtful.

[a] The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

* Exceptions to proposition that a *more* than average number of births is attended with a *less* than average proportion of males, and *vice versa*.

Digitized by Google

EXHIBIT R.—CONTINUED.

	Years.	Males.	Females.	Unknown Sex.	Total Births.	Males to 100 Femal's	Remarks.[a]
Massachusetts.	1865	15,628	14,554	72	30,249	107.3	Less than Av. Births, more than Av. Males.
	1866	17,394	16,603	88	34,085	104.7	More than Av. Births, less than Av. Males.
	1867	17,859	17,140	63	35,062	104.1	Less than Av. Births, less than Av. Males.*
	1868	18,571	17,574	48	36,193	105.6	More than Av. Births, less than Av. Males.
	1869	18,606	17,500	35	36,141	106.3	Less than Av. Births, more than Av. Males.
	1870	19,803	18,434	22	38,259	107.4	Probably more than Av. Births, more than Av. Males.*
1865 to 1870, Incl.		107,856	101,805	328	209,989	105.9	6 cases, 2 exceptions.
Rhode Island.	1854	1,061	1,003	21	2,105	107.7	Less than Av. Births, more than Av. Males.
	1855	1,492	1,421	13	2,926	104.9	More than Av. Births, less than Av. Males.
	1856	1,479	1,407	20	2,906	105.1	Less than Av. Births, less than Av. Males.*
	1857	2,057	1,948	21	4,026	105.5	More than Av. Births, less than Av. Males.
	1858	2,200	2,058	10	4,268	107.1	More than Av. Births, more than Av. Males.*
	1859	2,209	2,097	...(?)..	4,306?	105.3	Less than Av. Births, less than Av. Males.*
	1860	2,268	2,212	18	4,498	102.3	Less than Av. Births, less than Av. Males.*
	1861	2,531	2,291	18	4,840	110.4	More than Av. Births, more than Av. Males.*
	1862	2,152	1,967	6	4,125	109.4	Less than Av. Births, more than Av. Males.
	1863	1,892	1,788	11	3,691	105.8	Less than Av. Births, more than Av. Males.
	1864	1,949	1,942	1	3,892	100.3	More than Av. Births, less than Av. Males.
	1865	2,096	1,857	2	3,955	112.8	Less than Av. Births, more than Av. Males.
	1866	2,546	2,356	.....	4,902	108.0	More than Av. Births, more than Av. Males.*
	1867	2,655	2,464	8	5,127	107.7	Less than Av. Births, more than Av. Males.
	1868	2,745	2,627	.....	5,372	104.4	More than Av. Births, less than Av. Males.
	1869	2,685	2,560	.....	5,245	104.8	Less than Av. Births, less than Av. Males.*
	1870	2,679	2,536	...(?)..	5,215	105.6	Less than Av. Births, Av. Males.*
	1871	2,878	2,800	...(?)..	5,678	102.8	Less than Av. Births, less than Av. Males.*
	1872	3,085	3,058	.....	6,143	100.8	More than Av. Births, less than Av. Males.
1854 to 1872, Incl.		42,674	40,887	149	83,210	105.6	19 cases, 9 exceptions.

[a] The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question, and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

* Exceptions to rule that a *more* than average number of births is attended with a *less* than average proportion of males, and *vice versa*.

Digitized by Google

EXHIBIT R.—CONTINUED.

	Year.	Males.	Females.	Unknown Sex.	Total Births.	Males to 100 Femal's	Remarks.[a]
Connecticut.	1849	3,617	3,424	197	7,238	105.6	.....
	1850	3,819	3,551	208	7,578	107.5	.....
	.....	.....	.....	.....	.....	.....	.....
	1854	4,259	3,975	205	8,439	107.1	.....
	.....	.....	.....	.....	.....	.....	.....
	1856	5,691	5,344	104	11,139	106.4	More than Av. Births, less than Av. Males.
	1857	5,950	5,316	89	11,355	111.9	More than Av. Births, more than Av. Males.*
	1858	5,872	5,360	67	11,299	109.5	Less than Av. Births, less than Av. Males.*
	1859	5,870	5,266	123	11,259	111.4	Less than Av. Births, more than Av. Males.
	1860	6,192	5,568	113	11,873	111.2	More than Av. Births, more than Av. Males.*
	1861	6,167	5,678	89	11,934	108.6	More than Av. Births, less than Av. Males.
	1862	5,508	5,213	87	10,808	105.7	Less than Av. Births, less than Av. Males.*
	1863	5,162	4,654	69	9,885	110.9	Less than Av. Births, more than Av. Males.
	1864	5,029	4,628	77	9,734	108.6	Less than Av. Births, less than Av. Males.*
	1865	.....	.....	.....	10,202	.....	.....
	1866	.....	.....	.....	11,623	.....	.....
	1867	6,286	5,667	76	12,029	110.9	Less than Av. Births, more than Av. Males.
	1868	6,479	5,914	76	12,469	109.5	More than Av. Births, less than Av. Males.
	1869	6,505	5,886	90	12,481	110.5	Less than Av. Births, more than Av. Males.
	1870	6,876	6,181	79	13,136	111.2	More than Av. Births, more than Av. Males.*
	1871	6,904	6,122	88	13,114	112.7	.....(?).....
	[b]1856 to 1871, Incl.	84,486	76,797	1,227	162,510	110.0	14 cases, 6 exceptions, 1 doubtful.
State of Michigan.	[c]1868	10,088	9,284	172	19,544	108.6	.....
	[d]1868	10,133	9,003	35	19,171	112.5	.....
	1869	14,071	12,958	64	27,093	108.5	More than Av. Births, less than Av. Males.
	1870	13,946	12,726	91	26,663	108.8	More than Av. Births, more than Av. Males.*
	1871	13,596	12,327	69	25,992	110.2	Less than Av. Births, more than Av. Males.
	1872	14,311	13,312	83	27,706	107.5	More than Av. Births, less than Av. Males.
	1869 to 1872, Inc.	55,824	51,323	307	107,454	108.7	4 cases, 1 exception.

[a] The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

[b] Except 1865–6. [c] Year ending April 5th, 1868. [d] Nine months ending Dec. 31.

* Exceptions to rule that a *more* than average number of births is attended with a *less* than average proportion of males, and *vice versa*.

Digitized by Google

EXHIBIT R.—CONTINUED.

YEAR.	Males.	Females.	Unknown Sex.	Total Births.	Males to 100 Femal's	Remarks.[a]
All in Exhibit preceding.[b]	788,767	685,389	3,563	1,427,719	107.8	183 cases, 48 exceptions, 7 doubtful.
England. 1849	.....	.....	.....	578,159	.....	.....
England. 1850	.....	.....	.....	593,422	104.2	Less than Av. Births, less than Av. Males.*
England. 1851	.....	.....	.....	615,865	104.7	More than Av. Births, more than Av. Males.*
England. 1852	.....	.....	.....	624,012	104.6	More than Av. Births, Av. Males.*
England. 1853	.....	.....	.....	612,391	105.1	Less than Av. Births, more than Av. Males.
England. 1854	.....	.....	.....	634,405	104.4	More than Av. Births, less than Av. Males.
Average	.....	.....	.....	.....	104.6	5 cases, 3 exceptions.

[a] The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

[b] Including city of Providence, which is also included in statement for Rhode Island.

* Exceptions to rule that a *more* than average number of births is attended with a *less* than average proportion of males, and *vice versa*.

EXHIBIT S.—*Births in certain Cities and States during the years previous to 1861, for which statements are contained in Exhibit R.*

CITIES AND STATES.	Males.	Females.	Unknown Sex.	Total Births.	Males to 100 Females.
City of New York	51,674	47,478	114	99,266	108.8
Philadelphia	74,790	69,597	.....	144,387	107.4
City of Providence	5,805	5,492	.....	11,297	105.6
Vermont	13,188	12,554	148	25,885	105.0
Massachusetts	73,459	68,665	706	142,830	106.9
Rhode Island	12,781	12,141	103	25,025	105.2
Connecticut	29,575	26,854	496	56,925	110.1
Total[a]	255,462	237,289	1,567	494,318	107.6

[a] Excluding city of Providence, which is included in statement for Rhode Island.

Digitized by Google

EXHIBIT T.—*Births in certain Cities and States during the Year 1861, showing that in a Majority of such Cities and States there was a less than Average Proportion of Male Children Born in that Year. The Birth-rate was increased.*

Cities and States.	Males.	Females.	Unknown Sex.	Total. Births.	Males to 100 Femal's	Remarks.
N. Y. City.....	5,072	4,748	49	9,869	106.8	Births increased, Males decreased.
Philadelphia...	9,008	8,263	.....	17,271	109.0	Births increased, Males decreased.
Providence.....	936	789	.....	1,725	118.6	Births increased, Males increas'd*
Vermont.....	3,354	3,170	43	6,567	105.8	Births increased, Males decreased.
Rhode Island..	2,531	2,291	18	4,840	110.4	Births increased, Males increas'd*
Connecticut....	6,167	5,678	89	11,934	108.6	Births increased, Males decreased.
Total a.....	26,182	24,150	199	50,481	108.2	Births increased, Males increas'd*

a Excluding City of Providence, which is included in statement for Rhode Island.
* Exceptions to rule that an *increased* birth-rate is attended with a *decreased* proportion of male children.

EXHIBIT U.—*Births in certain Cities and States during the Years 1862-5 inclusive, showing a greater than average proportion of Male Children born during those years. The birth-rate was decreased.*

Cities and States.	Males.	Females.	Unknown Sex.	Total of Births.	Males to 100 Femal's	Remarks.
N. Y. City.....	10,182	9,472	41	19,695	107.4	Births decreased, Males increased.
Philadelphia...	32,075	28,978	.....	61,053	110.6	Births decreased, Males increased.
Providence city	2,834	2,644	.....	5,478	107.1	Births decreased, Males increased.
Vermont.....	10,750	10,102	128	20,980	106.4	Births decreased, Males increased.
Massachusetts..	15,628	14,554	72	30,249	107.3	Births decreased, Males increased.
Rhode Island..	8,069	7,554	20	15,663	107.0	Births decreased, Males increased.
Connecticut....	15,694	14,495	233	30,422	108.2	Births decreased, M'l's decreased.*
Total a.....	92,413	85,155	494	178,062	108.5	Births decreased, Males increased.

a Excluding city of Providence, which is included in statement for Rhode Island.
* Exception to rule that a *decreased* birth-rate is attended with an *increased* proportion of male children.

Digitized by Google

EXHIBIT V.—*Births in certain Cities and States during the Years since 1865, for which statements are contained in Exhibit R.*

Cities and States.	Males.	Females.	Unknown Sex.	Total Births.	Males to 100 Females.
New York City	54,817	51,745	156	106,718	105.9
Philadelphia	65,284	58,991	.....	124,275	110.6
Providence City	6,570	6,426	.....	12,996	102.2
Vermont	18,289	17,106	167	35,562	106.9
Massachusetts	92,233	87,251	256	179,740	105.7
Rhode Island	19,273	18,401	8	37,682	104.6
Connecticut	33,050	29,770	409	63,229	111.0
Total [a]	282,946	263,264	996	547,206	107.4

[a] Excluding city of Providence, which is included in statement for Rhode Island.

EXHIBIT W.—*Births in certain Cities and States for all the Years specified for those Cities and States in Exhibit R.*

Cities and States.	Males.	Females.	Unknown. Sex.	Total Births.	Males to 100 Females.
New York City	121,745	113,443	360	235,548	107.3
Philadelphia	116,212	105,089	.....	221,301	110.5
Providence city	16,145	15,351	.....	31,496	105.2
Vermont	45,576	42,932	486	88,994	106.1
Massachusetts	107,856	101,805	328	209,989	105.9
Rhode Island	42,674	40,387	149	83,210	105.6
Connecticut	84,486	76,797	1,227	162,510	110.0
Total [a]	518,549	480,458	2,550	1,001,552	107.9

[a] Excluding city of Providence, which is included in statement for Rhode Island.

Digitized by Google

MARRIAGES.

The whole number of marriages returned as having been solemnized during the year 1871 was 10,181. This indicates a greater number of marriages than during the year 1870, but possibly a less number than during the year 1869, although it will be seen, by comparing Table I. with Exhibit A, that it is probable that some marriages solemnized in 1871 may be returned hereafter.

As an aid to a clear idea of the frequency of the ceremony, the average number of marriages during specified periods of time is stated as follows:

Average number per quarter	2,545.25
Average number per month	848.41
Average number per week	195.78
Average number per day	27.89

The actual number and per cent. of marriages during each quarter of the year is shown in Table I., which also includes similar statements for the preceding years. This table is made from all returns received up to May 1, 1873, as stated in the heading. Exhibit A shows the marriages as first returned, and in connection with Table 2 indicates the manner in which the statements for 1871 will probably be modified by future supplementary returns.

Digitized by Google

TABLE I.—*Marriages by Quarters of the Year, showing Number and Per Cent. of Total, for the Years 1868, 1869, 1870, and 1871, Corrected up to May 1, 1873.*

Totals and Months with Which Quarters End.	1868.		1869.		1870.		1871.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
Totals	8,635	100.00	10,284	100.00	9,648	100.00	10,181	100.00
March	1,527	17.68	2,298	22.29	2,484	25.75	2,475	24.30
June	1,813	20.99	2,256	21.93	2,134	22.13	2,250	22.09
September	2,154	24.94	2,442	23.74	2,157	22.36	2,423	23.79
December	3,133	36.28	3,275	31.84	2,851	29.56	3,018	29.64
Unknown	8	.09	18	.17	17	.17	15	.14
Average *	2,159	25.00	2,571	25.00	2,411	25.00	2,545	24.99

* The number in unknown quarter of year included.

EXHIBIT A.—*Marriages by Quarters of the Year, showing Number and Per Cent. of Total, for the Years 1868, 1869, 1870, and 1871, as originally returned and published in Reports.*

Totals, and Months with which Quarters End.	1868.		1869.		1870.		1871.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
Totals	6,866	100.00	8,459	100.00	9,160	100.00	10,181	100.00
March	1,377	20.05	2,167	25.61	2,429	26.51	2,475	24.30
June	1,667	24.13	2,097	24.79	2,081	22.71	2,250	22.09
September	1,886	27.46	2,154	25.46	2,073	22.63	2,423	23.79
December	1,924	28.16	2,024	23.92	2,560	27.94	3,018	29.64
Unknown	12	.17	17	.20	17	.18	15	.14
Average *	1,716	25.00	2,114	25.00	2,290	25.00	2,545	24.99

* Includes those in unknown quarter of year.

Digitized by Google

TABLE II.—*Marriages by Months, arranged in Order by Number, for the Years 1868, 1869, 1870, and 1871, Corrected up to May 1st, 1873.*

Order	1868.			1869.			1870.			1871.		
	Months.	Number.	Per Cent. of Total.	Months.	Number.	Per Cent. of Total.	Months.	Number.	Per Cent. of Total.	Months.	Number.	Per Cent. of Total.
	Total	8,685	100.00	Total	10,284	100.00	Total	9,648	100.00	Total	10,181	100.00
1.....	December...	1,188	13.17	December ...	1,179	11.46	December ...	993	10.29	December ...	1,087	10.67
2.....	November ..	1,028	11.90	November ..	1,062	10.32	November ..	958	9.88	October.....	977	9.59
3.....	October.....	967	11.19	October.....	1,034	10.04	October.....	905	9.38	November ..	954	9.37
4.....	September..	841	9.73	September..	892	8.67	January.....	843	8.74	January.....	901	8.84
5.....	July	718	8.31	January.....	860	8.36	March.....	830	8.60	July	879	8.63
6.....	January.....	681	7.88	July	831	8.08	February ...	811	8.41	April.....	870	8.54
7.....	May	663	7.67	May	816	7.93	July	801	8.30	September..	833	8.18
8.....	April.....	614	7.11	April.....	763	7.41	May.....	778	8.06	March.....	803	7.88
9.....	August.....	595	6.89	March.....	750	7.29	April.....	752	7.79	February ...	771	7.57
10.....	June.....	536	6.20	August.....	719	6.99	September..	743	7.70	May	749	7.35
11.....	February ...	461	5.33	February ...	683	6.64	August.....	613	6.35	August.....	711	6.98
12.....	March	385	4.45	June.....	677	6.58	June.....	604	6.26	June.....	631	6.19
	Unk. M'ths..	8	.09	Unk. M'ths..	18	.17	Unk. M'ths..	17	.17	Unk. M'ths..	15	.14
	Average [a].....	719.58	8.33	Average [a].....	857.00	8.33	Average [a].....	803.58	8.33	Average [a].....	848.41	8.33

[a] Includes those for unknown months.

Digitized by Google

EXHIBIT B.—*Marriages in Michigan during the Years 1868, 1869, 1870, and 1871, corrected up to May 1, 1873, and Equalized to Uniform Months of 30.44 days each.*

	Y'rs.	Totals.	Months.												
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Un-kn'wn
Marriages as returned	1868	8,635	681	461	885	614	668	586	718	595	841	967	1,028	1,188	8
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length	1868	.....	-.56	+1.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length	1868	-26	-12	+23	-7	+9	-12	+8	-13	-11	+12	-17	+15	-21	.....
Marriages equalized to months of uniform length	1868	8,609	669	484	878	623	651	544	705	584	853	950	1,043	1,117	8
Marriages as returned	1869	10,284	860	688	750	763	816	677	831	719	892	1,084	1,062	1,179	18
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length	1869	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length	1869	-3	-16	+60	-14	+11	-15	+10	-15	-13	+13	-19	+16	-21	.....
Marriages equalized to months of uniform length	1869	10,281	844	748	736	774	801	687	816	706	905	1,015	1,078	1,158	18

Digitized by Google

Marriages as returned	1870	9,643	848	811	880	752	778	604	801	618	748	905	958	998	17
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length	1870	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length	1870	+13	-15	+71	-15	+11	-14	+9	-14	-11	+11	-16	+14	-18	.....
Marriages equalized to months of uniform length	1870	9,656	828	882	815	763	764	613	787	602	754	889	967	975	17
Marriages as returned	1871	10,181	901	771	803	870	749	631	879	711	883	977	954	1,087	15
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length	1871	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length	1871	+3	-16	+67	-15	+13	-14	+9	-16	-13	+12	-18	+14	-20	.....
Marriages equalized to months of uniform length	1871	10,184	885	838	788	883	735	640	863	698	845	959	968	1,067	15

Digitized by Google

Table II. differs from the similar table in the last Report by containing a greater number of marriages in each year included, the additional number having been returned since the several columns in that table were compiled. Exhibit B shows the modification made to the statements of marriages as returned in order to render it possible and convenient to compare the marriages by months.

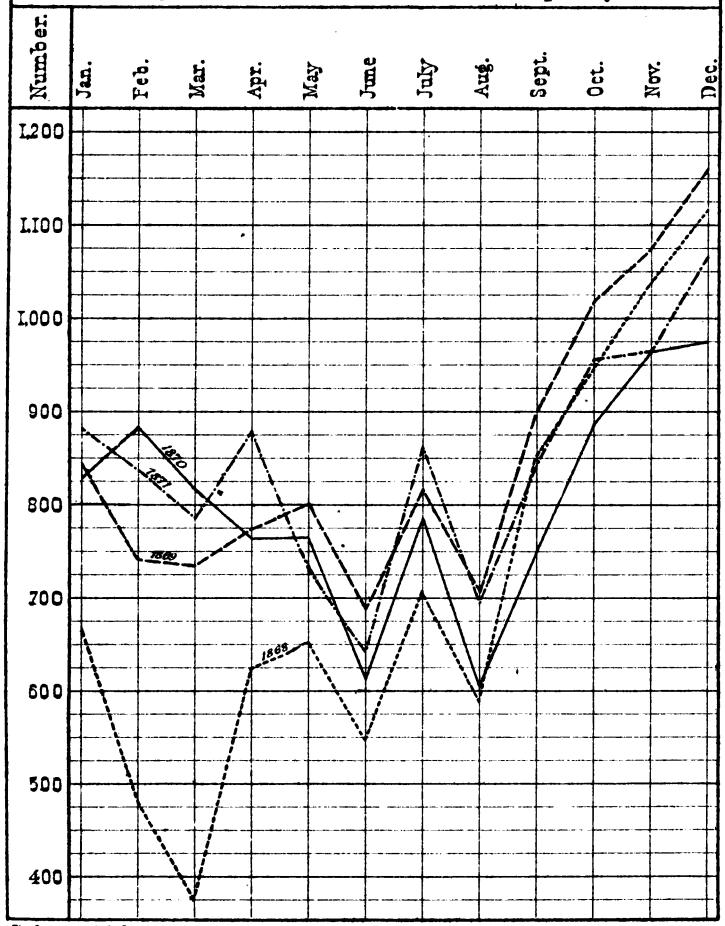
The diagram, relating to marriages equalized to months of uniform length, shows more plainly than the tables the relation between the years, and also between the different months of each year. It also shows the tendency to marriage in each month, which cannot so well be seen from a table or diagram exhibiting the marriages as returned.

By comparing this Report with the preceding one, it will be seen that there is not so great a falling off in the marriages returned for the last few months in the year 1871, but it is not probable that all have yet been returned. It seems, however, that the system of record and return is constantly becoming more fully understood, and the law better complied with.

Digitized by Google

DIAGRAM No 2.

Marriages in Michigan during the years 1868, 1869, 1870 and 1871 by months equalized to uniform length of 30.44 days each. From returns corrected up to May 1. 1873.



The Calvert Lith. Co. Detroit.

Designed by H. B. Baker, M.D.

Digitized by Google

Digitized by Google

TABLE III.—*Distinguishing, by Counties and by Months, the Number of Marriages Returned as having been Solemnized during the year ending December 31, 1871.*

STATE AND COUNTIES.	Year 1871.	MONTHS.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State	10,181	901	771	803	870	749	681	879	711	833	977	954	1087	15
Alcona	8	----	----	----	----	----	1	1	----	----	1	----	----	----
Allegan	215	18	16	27	15	20	12	14	14	17	22	12	28	----
Alpena	26	----	1	2	2	4	1	5	----	5	3	2	1	----
Antrim	18	----	3	2	----	7	1	----	----	----	1	3	1	----
Barry	156	16	11	13	17	15	5	22	7	5	8	14	23	----
Bay	118	10	8	4	7	13	6	15	16	5	12	12	9	1
Benzie	17	3	2	1	2	----	----	1	----	2	1	2	3	----
Berrien	377	37	23	44	33	25	15	30	26	29	35	36	44	----
Branch	263	34	16	27	23	16	19	12	16	18	28	24	30	----
Calhoun	270	27	19	21	24	15	14	11	17	23	25	34	40	----
Cass	199	10	20	13	21	16	20	14	12	15	18	22	17	1
Charlevoix	18	2	----	----	2	2	2	1	3	3	2	1	----	----
Cheboygan	21	----	2	1	4	3	1	2	1	1	1	----	5	----
Chippewa	11	----	1	----	1	2	2	----	----	2	1	2	----	----
Clare	13	----	----	1	1	2	1	1	3	2	1	1	----	----
Clinton	168	17	17	15	17	15	5	14	11	12	17	18	10	----
Delta	15	----	----	----	----	----	1	2	3	----	3	2	4	----
Eaton	225	29	24	14	18	11	9	15	21	21	19	22	22	----
Emmet	14	2	4	----	1	2	1	----	1	1	1	----	1	----
Genesee[a]	254	21	22	28	21	21	20	21	19	9	25	22	25	----
Grand Traverse	33	3	1	1	5	4	----	4	2	2	4	5	2	----
Gratiot	110	11	8	10	10	7	7	15	10	8	9	8	12	----
Hillsdale	322	44	30	25	22	20	19	21	21	20	37	22	41	----
Houghton	90	4	11	4	3	7	8	8	12	13	10	4	5	1
Huron	63	7	4	4	2	5	4	6	4	9	4	7	7	----
Ingham	235	17	23	23	24	13	13	23	14	22	18	18	27	----

[a] The clergymen of two large Catholic societies in this county (one in Flint and one in Fenton) made no returns of marriages for the year 1871.

Digitized by Google

TABLE III.—Continued.

COUNTIES.	Year 1871.	Months.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ionia	249	21	16	19	23	14	8	33	12	27	22	26	28	----
Iosco	44	1	2	3	2	3	2	7	5	3	6	6	4	----
Isabella	38	2	6	3	----	4	----	7	1	4	3	2	6	----
Jackson	307	35	29	19	25	20	17	20	25	23	26	28	39	1
Kalamazoo	300	20	17	27	21	21	19	20	29	27	27	34	46	1
Kalkaska	8	----	----	----	1	----	----	1	----	1	----	----	----	----
Kent	489	46	34	38	43	26	28	52	29	36	54	44	59	----
Keweenaw [b]	------	----	----	----	----	----	----	----	----	----	----	----	----	----
Lake [c]	------	----	----	----	----	----	----	----	----	----	----	----	----	----
Lapeer	155	12	14	14	18	15	6	10	13	13	11	14	15	----
Leelanaw	43	1	2	3	5	3	1	8	6	3	5	2	4	----
Lenawee	419	34	38	49	27	28	19	36	38	36	38	36	45	----
Livingston	139	7	7	14	11	7	10	16	12	15	14	15	11	----
Mackinac [b]	------	----	----	----	----	----	----	----	----	----	----	----	----	----
Macomb	228	21	19	14	20	20	17	14	14	20	16	32	21	----
Manistee	85	6	5	7	7	10	8	8	5	4	10	6	9	----
Manitou	4	----	----	1	----	----	1	1	----	1	----	----	----	----
Marquette	145	23	9	9	7	15	15	9	10	9	16	15	8	----
Mason	36	1	----	3	3	6	2	5	4	----	5	4	3	----
Mecosta	62	4	5	2	4	8	2	6	3	4	4	12	8	----
Menominee	8	1	----	----	1	----	2	----	2	----	2	----	----	----
Midland	25	1	1	3	4	1	1	1	1	2	2	2	4	2
Missaukee	1	----	----	1	----	----	----	----	----	----	----	----	----	----
Monroe	206	23	20	13	16	16	8	13	20	16	24	17	20	----
Montcalm	125	6	15	9	14	8	4	13	8	13	11	11	13	----
Muskegon	129	12	10	7	7	10	11	18	11	10	10	7	16	----
Newaygo	66	9	3	5	6	1	7	3	2	6	11	5	8	----
Oakland	334	26	26	25	41	20	17	25	19	24	24	32	54	1
Oceana	60	4	5	7	5	2	3	7	5	2	6	6	7	1

[b] No returns of marriages to this Department.
[c] No marriages returned to County Clerk.

Digitized by Google

TABLE III.—CONTINUED.

COUNTIES.	Year 1871.	Months.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ontonagon	6	----	----	----	----	1	----	----	2	1	1	1	----	----
Osceola	31	1	1	1	5	3	4	1	4	1	4	2	4	----
Ottawa	202	10	18	14	17	16	20	25	6	19	24	18	15	----
Presque Isle [b]	------	----	----	----	----	----	----	----	----	----	----	----	----	----
Saginaw	382	41	24	28	34	30	24	40	24	25	36	34	42	----
Sanilac	96	4	6	9	14	2	6	9	12	8	14	5	7	----
Schoolcraft [b]	------	----	----	----	----	----	----	----	----	----	----	----	----	----
Shiawassee	146	15	10	11	17	9	10	11	9	13	13	12	16	----
St. Clair	304	20	21	29	16	24	23	30	17	24	37	37	26	----
St. Joseph	309	28	21	26	27	22	15	30	20	30	66	33	31	----
Tuscola	111	8	11	9	4	8	7	11	8	10	11	10	14	----
Van Buren	221	22	16	15	15	15	13	20	13	25	18	30	19	----
Washtenaw	300	29	17	21	24	25	19	23	19	27	34	21	41	----
Wayne	1,111	93	81	64	111	91	93	87	79	107	111	101	87	6
Wexford	8	2	1	1	----	----	2	1	----	----	----	1	----	----

[b] No returns of marriages to this Department.

In the Report for 1870 there were 635 marriages reported where the color was not stated. In one or two counties it was manifestly the fault of the County Clerk, but in most cases it was the result of lack of performance of duty by those solemnizing marriages. It is gratifying to notice that in the marriages for 1871 the number returned without a statement of the color of parties married is reduced to 166.

In the blanks printed and distributed by the State Department for the use of persons who solemnize marriages, there has lately been an important improvement as regards the method of returning the color of persons married, which it is now provided shall be stated as white, black, mulatto, Indian,

Digitized by Google

white and Indian, etc. More perfect statements are therefore expected hereafter.

TABLE IV.—*Showing, by Color and by Sex, the Population June 1, 1870, the Number of Marriages, the Number and Per Cent. of Total Number of Persons Married in Michigan during the year 1871, and the Per Cent. of Persons Married in 1871 to Population June 1, 1870.*

COLORS.	SEX.	Population June 1, 1870, Represented by Marriages in 1871.	Number of Marriages.	PERSONS MARRIED.		Per Cent. of Persons Married in 1871 to Pop. June 1, 1870.	No. of Persons who Married those of Another Color.
				Number.	Per Cent. of Total No.		
All Colors	Total	1,176,659	10,181	20,362	100.00	1.730	30
	Males	613,966	.....	10,181	50.00	1.658	15
	Females	562,693	.....	10,181	50.00	1.809	15
White	Total	1,160,435	9,854	19,776	97.12	1.704	11
	Males	605,528	.....	9,916	48.70	1.637	9
	Females	554,907	.....	9,860	48.42	1.776	2
Black	Total	5,521	103	205	1.00	3.713	6
	Males	3,047	.....	105	.51	3.446	6
	Females	2,474	.....	100	.49	4.042	.....
Mulatto	Total	6,199	10	20	.09	.322	4
	Males	3,129	.....	9	.04	.287	.....
	Females	3,070	.....	11	.05	.358	4
Indian	Total	4,504	43	89	.43	1.976	9
	Males	2,262	.....	49	.19	1.768	.....
	Females	2,242	.....	49	.24	2.185	9
Unknown Colors	Total	.....	166	272	1.33	.....	.....
	Males	.....	.....	111	.54	.....	.....
	Females	.....	.....	161	.79	.....	.....
Black and Mulatto	Total	11,720	113	225	1.10	1.919	10
	Males	6,176	.....	114	.55	1.845	6
	Females	5,544	.....	111	.54	2.002	4

Digitized by Google

TABLE V.—*Showing, for the State and Counties, the Number of Marriages Returned as having been Solemnized in Michigan during the Year 1871, the Number of White Persons, and by Color, the Number of Marriages where one or both Parties were other than White.*

STATE AND COUNTIES	Marriages, 1871.	Color.				
		White.	Black.	Mulatto.	Indian.	Unknown.
State	10,181	9,554	*108	†10	‡48	§166
Alcona	3	3	------	----	----	----
Allegan	215	209	a 4	----	2	----
Alpena	26	26	------	----	----	----
Antrim	18	18	------	----	----	----
Barry	156	156	------	----	----	----
Bay	118	115	b 1	----	2	----
Benzie	17	15	------	----	----	2
Berrien	877	856	c 4	----	----	d 17
Branch	263	261	------	----	----	e 2
Calhoun	270	260	f 5	----	g 3	h 2
Cass	199	181	i 8	6	----	j 4
Charlevoix	18	14	------	----	3	k 1
Cheboygan	21	8	l 1	----	----	m 12
Chippewa	11	8	------	----	n 2	o 1
Clare	13	13	------	----	----	----
Clinton	168	167	p 1	----	----	----
Delta	15	15	------	----	----	----
Eaton	225	225	------	----	----	----
Emmet	14	2	------	----	q 12	----

* Includes 11 couples "Colored," 71 couples "African," 1 couple "Dark," 1 female "Mulatto," 3 males "African," 2 females "African and White," and 2 females "White."

† Includes 1 male "African."

‡ Includes 3 couples "Red," 2 couples "White and Indian," 4 females "White and Indian," 2 males "Indian and White," 9 males "White," 1 female "Indian," 1 female "Mixed," and 1 female "African, Indian, and White."

§ Includes 53 males "White," 1 "Indian," 1 female "Indian," 1 male "African," 1 couple "Light," and 4 females "White."

a 4 couples "Colored." b 1 couple "African." c 1 female "Mulatto." d 1 male "White." e 1 male "White." f 4 couples "African" and 1 couple "Dark." g 3 couples "Red." h 2 males "White." i 4 couples "African," 3 males "African," 1 female "White," 2 females "African and White." j 2 males "White." k 1 male "White." l 1 couple "African." m 12 males "White." n 1 female "White and Indian," 1 couple "White and Indian," 1 male "White." o 1 "Indian." p 1 couple "Colored." q 2 males "White," 1 female "Indian," 1 female "Mixed," 2 males "Indian and White," 1 female "Indian and White," 1 female "African, Indian, and White."

Digitized by Google

TABLE V.—CONTINUED.

COUNTIES.	Marriages, 1871.	Color.				
		White.	Black.	Mulatto.	Indian.	Unknown.
Genesee	254	249	1	----	----	[a] 4
Grand Traverse	33	33	------	----	----	----
Gratiot	110	110	------	----	----	----
Hillsdale	322	318	[b] 1	----	----	3
Houghton	90	89	------	----	----	[c] 1
Huron	63	63	------	----	----	----
Ingham	235	234	[b] 1	----	----	----
Ionia	249	248	1	----	----	----
Iosco	44	43	------	----	----	1
Isabella	38	32	------	----	6	----
Jackson	307	281	[d] 5	----	----	21
Kalamazoo	300	291	[e] 8	----	----	[f] 1
Kalkaska	8	8	------	----	----	----
Kent	489	486	1	----	----	[g] 2
Keweenaw [h]	------	------	------	----	----	----
Lake [i]	------	------	------	----	----	----
Lapeer	155	155	------	----	----	----
Leelanaw	43	37	[j] 1	----	[k] 5	----
Lenawee	419	388	1	1	----	[l] 34
Livingston	139	136	------	----	----	[m] 3
Mackinac [h]	------	------	------	----	----	----
Macomb	228	226	[n] 1	----	----	[o] 1
Manistee	85	76	------	----	----	[p] 9
Manitou	4	4	------	----	----	----
Marquette	145	143	[q] 2	----	----	----
Mason	36	33	------	----	[r] 2	[s] 1
Mecosta	62	61	------	----	----	1
Menominee	8	6	------	----	[t] 2	----

[a] 3 males "White." [b] 1 couple "Colored." [c] 1 female "Indian." [d] 5 couples "African." [e] 1 couple "Colored," 4 couples "African." [f] 1 Male "White." [g] 1 male "African," 1 male "White." [h] No returns of marriages to this Department. [i] No marriages returned to County Clerk. [j] 1 female "White." [k] 1 couple "White and Indian." [l] 1 couple "Light," 8 males "White." [m] 3 males "White." [n] 1 couple "African." [o] 1 male "White." [p] 5 males "White." [q] 2 couples "African." [r] 1 male "White." [s] 1 female "White." [t] 2 males "White," 2 females "White and Indian."

Digitized by Google

TABLE V.—CONTINUED.

COUNTIES.	Marriages, 1871.	Color.				
		White.	Black.	Mulatto.	Indian.	Unknown.
Midland	25	25	.....	....	....	....
Missaukee	1	1	.....	....	....	....
Monroe	206	205	[a] 1	....	....	....
Montcalm	125	125	.....	....	....	....
Muskegon	129	116	.....	....	....	[b] 13
Newaygo	66	66	.....	....	....	....
Oakland	334	317	[c] 6	....	....	[d] 11
Oceana	60	51	[e] 1	....	[f] 5	3
Ontonagon	6	6	.....	....	....	....
Osceola	31	31	.....	....	....	....
Ottawa	202	201	[g] 1	....	....	....
Presque Isle [h]	.....	.....	.....	....	....	....
Saginaw	382	368	[i] 2	....	1	[j] 11
Sanilac	96	95	.....	....	....	[k] 1
Schoolcraft [h]	.....	.....	.....	....	....	....
Shiawassee	146	145	1	....	....	....
St. Clair	304	300	.....	....	1	[l] 3
St. Joseph	309	307	[m] 2	....	....	....
Tuscola	111	111	.....	....	....	....
Van Buren	221	214	[n] 3	2	[o] 2	....
Washtenaw	300	298	[p] 6	[q] 1	....	....
Wayne	1,111	1,078	[r] 33	....	....	....
Wexford	8	7	.....	....	....	[s] 1

[a] 1 couple "African." [b] 1 female "White." [c] 6 couples "African." [d] 1 male "White." [e] 1 couple "African." [f] 2 males "White." [g] 1 couple "African." [h] No returns of marriages tothis Department. [i] 1 couple "African," 1 couple "Colored." [j] 7 males "White," 2 females "White." [k] 1 male "White." [l] 2 males "White." [m] 2 couples "Colored,' [n] 3 couples "African." [o] 1 male "White." [p] 3 couples "African." [q] 1 male "African." [r] 33 couples "African." [s] 1 male "White."

Digitized by Google

TABLE VI.—*Exhibiting, by Sex, the Nativity of Persons Married in Michigan during the Year 1871; Population June 1, 1870, Represented by Returns of Marriages in 1871; and Per Cent. of Persons Married to Population of same Nativity.*

NATIVITY.	Marriages.		Population June 1, 1870, Represented by Marriages in 1871.			Persons Married.					
						Number.			Per Cent. of Persons Married in 1871 to Population of same Nativity June 1, 1870.		
	Number.	Per Cent. of Total.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.
Total	10,181	100.00	1,176,659	613,966	562,693	20,362	10,181	10,181	1.73	1.65	1.80
Native	6,001	58.94	914,344	468,436	445,908	13,873	6,645	7,233	1.57	1.41	1.62
Foreign	1,947	19.12	262,315	145,530	116,785	5,770	3,179	2,591	2.19	2.18	2.21
Foreign Male and Native Female	1,232	12.10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foreign Female and Native Male	644	6.32	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nativity Unknown	357	3.50	.....	.....	.....	714	357	357	.....	.....	.....
One or Both Native	7,877	77.36	.....	.....	.....	.....	.....	.....	.....	.....	.....
One or Both Foreign	3,828	37.55	.....	.....	.....	.....	.....	.....	.....	.....	.....

Digitized by Google

EXHIBIT C.—*Relation of Marriages in 1871 of Persons of all Nativities, and of those where both parties were either Native or Foreign-born, to the Total, to the Native, and to the Foreign-born Inhabitants, June 1, 1870, aged 15 to 45 years.*

NATIVITY.	Inhabitants June 1st, 1870, Aged 15 to 45 Years.			Number Married.			Per Cent. of Persons Married in 1871 to Inhabitants June 1, 1870, ag'd 15 to 45 yr's.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nativities[a]	555,352	289,085	266,267	20,362	10,181	10,181	3.66	3.52	3.82
Native	387,306	195,765	191,541	13,878	6,645	7,233	3.58	3.39	3.77
Foreign	168,046	93,320	74,726	5,770	3,179	2,591	3.43	3.40	3.46

[a] In the number married, this line includes marriages of foreign males and native females, foreign females and native males, and of persons whose nativity was unknown.

Digitized by Google

Table VI. presents a useful view of the comparative number and per cent. of marriages of native and foreign-born inhabitants. As regards the relation of persons married to inhabitants, however, the table is necessarily very unsatisfactory, for the reason that the population is not a "fixed" one, and the total population furnishes no proper standard to which may be compared either the native or foreign-born population, each class of inhabitants including, as it does, a different proportion of persons at marriageable ages. Another view of this subject is given in Exhibit C, wherein only inhabitants aged 15 to 45 years are included in the computation. This, however, is only given as a slight beginning of the study, which it will at once be seen is a very complex one. By examining the fourth, sixth, ninth, and tenth columns of Table VII. it becomes evident that it will not answer to measure the marriage-rate of one sex at any given age, by that of the other sex at the same age, and that in order to compare the marriage-rate of native and foreign-born inhabitants it will be necessary to compute, for each nativity, the per cent. of marriages of persons of each sex at each age to the inhabitants of corresponding nativity at the same ages.

Digitized by Google

TABLE VII.—*Showing, for all Persons Married in Michigan during the Year 1871, by Total and by Sex, the Age in Years and Periods of Years; the Per Cent. of those at each Age to Total of all Ages; by Sex, the Population June 1, 1870, Represented by Returns of Marriages in 1871; and, by Sex, the Per Cent. of Persons Married to Population of same Age and Period of Age.*

AGES, IN YEARS AND PERIODS OF YEARS.	MARRIAGES.					Population at each Age and Period, June 1, 1870, Represented by Marriages in 1871.[b]		Per Cent. of Marriages to Population of Corresponding Age.	
	Total No. of Persons Married.	MALES.		FEMALES.					
		Number Married.	Per Cent. of Total No. of Marriages.	Number Married.	Per Cent. of Total No. of Marriages.	Males.	Females.	Males.	Females.
All ages[a]	20,362	10,181	100.00	10,181	100.00	386,471	383,122	2.63	2.65
12	1	------	------	1	------	--------	14,662	------	------
13	3	------	------	3	.02	--------	13,180	------	.02
14	27	------	------	27	.26	--------	12,865	------	.20
15	120	1	------	119	1.16	11,791	11,657	------	1.02
16	538	2	.01	536	5.26	12,566	12,447	.01	4.30
17	793	6	.05	787	7.73	11,699	11,258	.05	6.99
18	1,176	68	.66	1,108	10.88	12,407	12,667	.54	8.74
19	1,249	216	2.12	1,033	10.14	11,442	10,669	1.88	9.68
20	1,518	464	4.55	1,054	10.35	12,275	12,348	3.78	8.53
21 to 25	6,384	3,649	35.84	2,735	26.86	47,255	42,619	7.72	6.41
25 to 30	4,417	3,059	30.04	1,358	13.33	52,444	48,179	5.83	2.81
30 to 35	1,549	1,064	10.45	485	4.76	42,892	39,736	2.48	1.22
35 to 40	871	569	5.58	302	2.96	39,681	34,854	1.43	.86
40 to 45	546	326	3.20	220	2.16	32,513	28,151	1.00	.78
45 to 50	350	228	2.23	122	1.19	28,007	22,033	.81	.55
50 to 55	240	165	1.62	75	.73	23,945	18,082	.68	.41
55 to 60	155	112	1.10	43	.42	16,369	12,530	.68	.34
60 to 65	128	97	.95	31	.30	12,997	10,564	.74	.29
65 to 70	61	45	.44	16	.15	8,285	6,552	.54	.24
70 to 75	27	25	.24	2	.01	5,407	4,202	.46	.04
75 to 80	10	9	.08	1	------	2,572	2,139	.34	.04
80 and over	2	1	------	1	------	1,713	1,526	.05	.06
Unknown ages	197	75	.73	122	1.19	211	151	35.54	80.79
Under 15	31	------	------	31	.30	228,305	221,553	------	.01
15 to 20	3,876	293	2.87	3,583	35.19	60,042	58,853	.48	6.08
20 to 25	7,902	4,113	40.39	3,789	37.21	59,806	55,145	6.87	6.87

[a] At which marriages occurred.
[b] Population at ages at which marriages occurred.

Digitized by Google

TABLE VIII.—*Exhibiting, for the State and Counties, by Sex, the Nativity and Age in Periods of Years, of Persons Married in Michigan during the Year ending December 31, 1871.*

State and Counties.	No. of Couples.	Nativity.					Sex Stated.	Marriages at Different Ages Stated in Periods of Years.														
		Native.	Foreign.	For'n Males, Native Females.	Foreign Females, Native Males.	Unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
							Total	3,907	7,902	4,417	1,549	871	546	850	240	155	128	61	27	10	2	197
State	10,181	6,001	1,947	1,232	644	357	Males	293	4,113	3,059	1,064	569	326	228	165	112	97	45	25	9	1	75
							Females	3,614	3,739	1,358	485	302	220	122	75	43	31	16	2	1	1	122
Alcona	3	1	1	1	.....	....	Males	.....	2	1	.....	....	....	....	....	....	....	....	....	....	....	....
							Females	3	.....	.....	.....	....	....	....	....	....	....	....	....	....	....	....
Allegan	215	152	23	21	16	2	Males	5	94	60	21	11	10	2	4	1	5	....	....	....	....	2
							Females	82	78	21	15	6	8	4	2	....	....	....	....	....	....	4
Alpena	26	3	18	2	3	....	Males	.....	9	9	5	2	1	....	....	....	....	....	....	....	....	....
							Females	10	6	8	1	....	1	....	....	....	....	....	....	....	....	....
Antrim	18	7	3	5	3	....	Males	.....	9	4	2	1	1	....	1	....	....	....	....	....	....	....
							Females	10	3	5	.....	....	....	....	....	....	....	....	....	....	....	....
Barry	156	127	8	12	4	5	Males	6	76	41	10	9	3	2	4	....	2	1	1	....	....	1
							Females	69	57	17	2	6	3	....	1	....	....	....	....	....	....	1
Bay	118	33	40	28	16	1	Males	1	44	40	14	8	4	3	2	1	1	....	....	....	....	....
							Females	40	52	15	4	2	2	1	1	....	....	....	....	....	....	1
Benzie	17	10	.....	.....	1	6	Males	.....	7	4	1	....	1	....	....	1	....	1	....	....	....	2
							Females	9	4	.....	.....	....	1	1	....	....	....	....	....	....	....	2

Digitized by Google

Berrien	377	276	34	50	12	5	Males	12	161	106	87	19	21	8	4	5	2	----	----	2	----	----
							Females	138	143	49	17	5	14	2	5	1	1	----	----	----	----	2
Branch	263	225	8	18	10	2	Males	10	117	68	29	11	4	7	6	2	7	1	----	1	----	----
							Females	104	97	29	10	6	6	5	2	1	2	----	----	----	----	1
Calhoun	270	205	20	24	11	10	Males	3	113	87	24	16	8	8	5	1	4	----	----	----	----	1
							Females	86	100	89	18	10	4	3	2	4	----	----	----	----	----	4
Cass	199	174	7	12	5	1	Males	5	79	54	18	17	11	7	4	----	1	2	1	----	----	----
							Females	71	73	24	16	7	5	1	1	----	----	1	----	----	----	----
Charlevoix	18	6	5	4	2	1	Males	3	6	7	1	----	----	----	----	----	----	----	----	----	----	1
							Females	10	4	3	------	----	----	----	----	----	----	----	----	----	----	1
Cheboygan	21	7	3	8	1	2	Males	------	12	6	------	1	----	----	----	1	----	----	----	----	----	1
							Females	13	6	1	------	----	----	----	----	----	----	----	----	----	----	1
Chippewa	11	3	5	------	1	2	Males	------	3	4	1	----	2	----	----	----	----	----	----	----	----	1
							Females	2	6	1	------	1	----	----	----	----	----	----	----	----	----	1
Clare	13	6	1	5	1	----	Males	------	8	2	1	1	----	----	----	----	----	1	----	----	----	----
							Females	7	4	1	------	----	----	----	----	----	----	1	----	----	----	----
Clinton	168	136	5	22	8	2	Males	6	77	50	10	8	2	7	4	3	----	----	1	----	----	----
							Females	62	73	13	7	5	2	5	----	----	----	----	----	----	----	1
Delta	15	2	7	5	------	1	Males	2	5	7	1	----	----	----	----	----	----	----	----	----	----	----
							Females	9	6	------	------	----	----	----	----	----	----	----	----	----	----	----
Eaton	225	190	6	15	4	10	Males	8	113	57	11	11	9	5	2	4	3	2	----	----	----	----
							Females	95	73	25	12	6	3	1	3	1	----	----	----	----	----	1
Emmet	14	11	------	3	------	----	Males	3	8	1	2	----	----	----	----	----	----	----	----	----	----	----
							Females	10	3	1	------	----	----	----	----	----	----	----	----	----	----	----
Genesee	251	189	8	19	30	8	Males	9	119	73	22	13	3	4	5	----	1	----	2	----	----	3
							Females	99	100	29	10	7	2	1	3	----	1	----	----	----	----	2
Grand Traverse	33	16	4	4	7	2	Males	1	14	9	6	2	----	----	----	----	----	----	----	----	----	1
							Females	15	13	2	2	----	----	----	----	----	----	----	----	----	----	1

Digitized by Google

TABLE VIII.—CONTINUED.

COUNTIES.	No. of Couples.	Nativity.					Sex Stated.	Marriages at Different Ages Stated in Periods of Years.														
		Native.	Foreign.	For'n Males, Native Females.	Foreign Females, Native Males.	Unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Gratiot	110	85	5	9	1	10	Males	5	48	28	9	4	5	2	1	2	----	1	1	1	----	3
							Females	50	31	12	2	3	3	2	3	----	----	1	----	----	----	3
Hillsdale	322	280	6	17	9	10	Males	9	148	71	29	12	14	10	7	6	4	5	5	----	----	7
							Females	101	120	39	16	10	8	7	3	6	1	1	1	----	----	9
Houghton	90	1	75	5	1	8	Males	4	30	27	15	3	2	2	----	1	----	----	----	----	----	6
							Females	39	20	16	4	3	1	1	----	----	----	----	----	----	----	6
Huron	68	5	31	16	11	----	Males	3	26	16	6	3	2	4	1	1	1	----	----	----	----	----
							Females	35	21	1	1	1	3	----	----	----	1	----	----	----	----	----
Ingham	235	182	7	16	14	16	Males	11	89	75	17	17	2	8	5	3	3	1	----	----	----	4
							Females	69	93	40	13	5	4	3	1	1	1	----	----	----	----	5
Ionia	249	191	12	20	15	11	Males	9	113	66	24	14	6	2	4	3	3	1	----	----	----	4
							Females	100	92	26	12	6	2	1	2	3	----	----	----	----	----	5
Iosco	44	10	23	8	1	2	Males	1	25	10	2	3	1	1	----	1	----	----	----	----	----	----
							Females	19	14	8	1	1	----	----	----	1	----	----	----	----	----	----
Isabella	38	29	------	6	2	1	Males	3	15	8	------	2	1	----	----	1	2	----	----	----	----	6
							Females	20	5	3	1	1	1	----	1	----	----	----	----	----	----	6
Jackson	307	228	17	29	18	15	Males	12	123	83	36	19	8	6	5	----	1	4	2	----	----	3
							Females	97	112	50	9	15	7	3	1	3	----	1	----	----	----	9

Digitized by Google

Kalamazoo	300	206	35	35	14	10	Males	5	126	85	43	21	9	4	3	1	3	----	----	----	----	----
							Females	93	119	49	24	8	6	----	----	----	1	----	----	----	----	----
Kalkaska	3	1	1	1	----	----	Males	----	2	1	----	----	----	----	----	----	----	----	----	----	----	----
							Females	2	1	----	----	----	----	----	----	----	----	----	----	----	----	----
Kent	489	250	125	66	29	19	Males	7	189	151	51	30	21	15	13	4	6	1	----	1	----	----
							Females	156	185	76	30	14	12	4	8	----	3	1	----	----	----	----
Keweenaw [a]	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Lake [b]	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Lapeer	155	62	36	22	25	10	Males	3	78	44	12	7	4	1	2	1	1	1	1	----	----	----
							Females	74	50	12	8	4	2	----	1	1	2	----	----	----	----	1
Leelanaw	43	13	13	10	3	4	Males	1	18	10	5	3	1	2	2	----	1	----	----	----	----	----
							Females	21	10	5	1	4	1	1	----	----	----	----	----	----	----	----
Lenawee	419	328	21	33	14	23	Males	17	164	134	44	25	10	4	7	6	4	3	----	----	----	1
							Females	150	141	68	23	9	11	7	----	2	1	1	----	----	----	6
Livingston	139	94	5	20	7	13	Males	5	65	33	13	11	1	1	3	4	1	2	----	----	----	----
							Females	45	55	23	4	4	3	1	1	----	2	----	----	----	----	1
Mackinac [a]	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Macomb	228	119	45	32	20	12	Males	8	101	65	22	10	5	5	4	5	1	1	1	----	----	----
							Females	85	84	31	7	8	6	2	1	1	----	2	----	----	----	1
Manistee	35	16	51	13	3	2	Males	1	26	34	16	2	1	----	3	----	----	----	----	----	----	2
							Females	27	31	15	5	2	3	----	----	----	----	----	----	----	----	2
Manitou	4	1	2	1	----	----	Males	----	1	1	1	----	1	----	----	----	----	----	----	----	----	----
							Females	1	----	1	1	1	----	----	----	----	----	----	----	----	----	----
Marquette	145	26	87	23	9	----	Males	4	45	66	19	5	3	2	1	----	----	----	----	----	----	----
							Females	47	67	19	4	5	2	----	----	----	----	----	----	----	----	1
Mason	36	18	9	7	1	1	Males	1	16	8	4	3	2	----	----	----	1	----	----	1	----	----
							Females	21	9	1	1	1	1	1	----	----	----	----	----	----	1	----

[a] No returns of marriages to this Department.

[b] No marriages returned to County Clerk.

Digitized by Google

TABLE VIII.—CONTINUED.

COUNTIES.	No. of Couples.	Nativity.					Sex Stated.	Marriages at Different Ages Stated in Periods of Years.														
		Native.	Foreign.	For'n Male, Native Females.	Foreign Female, Native Males.	Unknown.		Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Mecosta	62	32	13	10	7	----	Males	1	20	20	9	3	3	3	1	----	1	1	----	----	----	----
							Females	25	19	7	6	1	1	2	----	1	----	----	----	----	----	----
Menominee	8	3	3	2	------	----	Males	------	1	3	2	1	----	----	----	1	----	----	----	----	----	----
							Females	2	1	3	1	----	1	----	----	----	----	----	----	----	----	----
Midland	25	13	3	3	6	----	Males	1	12	8	2	2	----	----	----	----	----	----	----	----	----	----
							Females	11	11	3	------	----	----	----	----	----	----	----	----	----	----	----
Missaukee	1	------	1	------	------	----	Males	------	------	1	------	----	----	----	----	----	----	----	----	----	----	----
							Females	------	1	------	------	----	----	----	----	----	----	----	----	----	----	----
Monroe	206	136	27	30	8	5	Males	6	80	59	32	12	5	2	3	2	3	1	----	----	----	1
							Females	57	99	21	13	1	4	1	3	2	1	----	----	----	----	4
Montcalm	125	87	12	9	11	6	Males	2	53	39	6	6	7	3	----	1	1	2	----	----	----	5
							Females	52	46	8	4	4	2	3	1	----	----	----	----	----	----	5
Muskegon	129	51	52	14	7	5	Males	4	43	38	23	13	4	3	----	----	1	----	----	----	----	----
							Females	48	45	19	8	5	2	----	----	1	1	----	----	----	----	----
Newaygo	66	46	2	9	4	5	Males	3	26	26	3	4	2	1	----	----	----	----	----	----	----	1
							Females	38	20	2	------	4	1	----	----	----	----	----	----	----	----	1
Oakland	334	240	18	33	28	15	Males	11	126	99	41	22	10	7	4	5	3	2	1	----	----	3
							Females	104	128	46	19	10	7	5	2	3	----	2	----	----	----	3
Oceana	60	33	11	8	2	1	Males	3	20	19	6	7	----	1	2	1	----	----	----	----	----	1
							Females	27	21	6	1	----	2	2	----	----	----	----	----	----	----	1

Digitized by Google

Ontonagon	6	1	3	1	1	----	Males	------	1	1	1	3	----	----	----	----	----	----	----	----	----	----
							Females	3	1	------	1	----	----	1	----	----	----	----	----	----	----	----
Osceola	31	10	13	5	3	----	Males	4	12	6	4	1	2	1	1	----	----	----	----	----	----	----
							Females	14	11	1	3	1	----	1	----	----	----	----	----	----	----	----
Ottawa	202	75	59	39	16	13	Males	4	79	60	21	16	6	5	4	3	2	2	----	----	----	----
							Females	84	65	20	11	7	6	1	1	3	2	----	1	1	----	----
Presque Isle [b]	------	------	------	------	------	----	----------	------	------	------	------	----	----	----	----	----	----	----	----	----	----	----
Saginaw	382	129	144	65	34	10	Males	7	127	150	38	25	10	10	9	2	2	1	----	----	----	1
							Females	118	155	55	14	13	12	6	4	1	----	----	----	----	----	4
Sanilac	96	17	43	18	12	1	Males	2	43	29	9	5	4	1	2	----	1	----	----	----	----	----
							Females	46	31	6	5	1	1	3	2	----	1	----	----	----	----	----
Schoolcraft [b]	------	------	------	------	------	----	----------	------	------	------	------	----	----	----	----	----	----	----	----	----	----	----
Shiawassee	146	104	11	15	10	6	Males	5	58	42	17	7	6	5	3	----	2	----	1	----	----	----
							Females	65	49	15	4	5	2	2	3	----	1	----	----	----	----	----
St. Clare	304	54	150	50	26	24	Males	13	106	93	36	17	14	7	8	6	3	1	1	----	----	4
							Females	114	104	38	14	14	7	6	1	1	1	1	----	----	----	8
St. Joseph	309	263	16	20	10	----	Males	10	130	92	32	11	9	6	3	5	5	----	5	1	----	----
							Females	95	129	51	8	10	2	5	3	2	2	2	----	----	----	----
Tuscola	111	54	16	24	13	4	Males	4	50	28	9	4	4	2	3	4	----	----	----	1	----	2
							Females	51	32	10	5	3	5	2	----	----	1	----	----	----	----	2
Van Buren	221	153	7	23	5	3	Males	7	95	63	17	10	8	7	4	5	1	2	1	----	----	1
							Females	37	81	20	13	6	6	3	1	1	1	1	----	----	----	1
Washtenaw	300	186	55	29	17	13	Males	6	121	100	32	10	4	9	4	5	5	2	1	----	----	1
							Females	70	139	58	9	7	8	5	2	1	2	----	----	----	----	4
Wayne	1,111	349	470	178	96	18	Males	17	387	369	140	65	49	33	17	14	9	3	----	1	1	6
							Females	301	434	196	64	44	29	17	10	2	2	1	----	----	----	11
Wexford	8	6	1	------	1	----	Males	------	4	3	------	1	----	----	----	----	----	----	----	----	----	----
							Females	6	1	------	1	----	----	----	----	----	----	----	----	----	----	----

[b] No returns of marriages to this Department.

Digitized by Google

TABLE IX.—*Exhibiting, for the State and Counties, the Total Number, and Number of each Sex, under 21 Years of Age; also, the Number of each Sex at each Age under that of Twenty-one Years, returned as having been Married in Michigan during the Year ending December 31, 1871.*

STATE AND COUNTIES.	Total No. Married under 21 Years of Age.	Males Married under 21 Years of Age.	Females Married under 21 Years of Age.	Ages of Males.						Ages of Females.								
				Twenty.	Nineteen.	Eighteen.	Seventeen.[a]	Sixteen.[a]	Fifteen.[a]	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.[a]	Fourteen.[a]	Thirteen.[a]	Twelve.[a]
State	5,425	757	4,668	464	216	68	6	2	1	1,054	1,083	1,108	787	536	119	27	3	1
Alcona	3	.....	3	.....	.....	....	....	....	....	.....	2	.....	.....	.....	1	....	....	....
Allegan	134	17	117	12	4	1	....	....	....	35	17	32	18	12	2	1	....	....
Alpena	13	1	12	1	.....	....	....	....	....	2	4	3	2	1	.....	....	....	....
Antrim	10	.....	10	.....	.....	....	....	....	....	.....	1	2	3	2	2	....	....	....
Barry	96	14	82	8	5	1	....	....	....	13	25	17	16	10	1	....	....	....
Bay	56	4	52	3	1	....	....	....	....	12	8	13	12	5	2	....	....	....
Benzie	11	1	10	1	.....	....	....	....	....	1	.....	2	2	4	1	....	....	....
Berrien	214	31	183	19	9	3	....	....	....	45	41	41	31	20	4	....	1	....
Branch	160	24	136	14	8	2	....	....	....	32	35	32	23	11	2	1	....	....
Calhoun	125	15	110	12	2	1	....	....	....	24	25	27	21	9	2	1	1	....
Cass	105	14	91	9	5	....	....	....	....	20	26	23	10	8	3	1	....	....
Charlevoix	14	3	11	.....	3	....	....	....	....	1	2	.....	5	3	.....	....	....	....
Cheboygan	15	.....	15	.....	.....	....	....	....	....	2	2	4	3	4	.....	....	....	....

Digitized by Google

Chippewa	4	.....	4	.....	.....	....	....	....	....	2	.....	2	.....	.....	.....	....	....	....
Clare	7	.....	7	.....	.....	....	....	....	....	.....	2	.....	2	3	.....	....	....	....
Clinton	96	14	82	8	4	2	....	....	....	20	19	18	12	11	1	1	....	....
Delta	12	2	10	.....	1	1	....	....	....	1	3	4	1	1	.....	....	....	....
Eaton	136	17	119	9	7	1	....	....	....	24	40	18	15	17	4	1	....	....
Emmet	15	4	11	1	.....	3	....	....	....	1	1	2	5	1	.....	1	....	....
Genesee	152	25	127	16	8	1	....	....	....	28	25	32	20	17	4	1	....	....
Grand Traverse	21	3	18	2	1	....	....	....	....	3	8	2	.....	3	1	1	....	....
Gratiot	79	18	61	13	3	2	....	....	....	11	10	10	12	12	5	1	....	....
Hillsdale	158	28	130	14	7	2	....	....	....	29	29	30	27	13	2	....	....	....
Houghton	51	6	45	2	3	1	....	....	....	6	9	10	11	5	4	....	....	....
Huron	47	8	39	5	3	....	....	....	....	4	5	8	9	7	6	....	....	....
Ingham	118	24	94	13	7	4	....	....	....	25	19	21	18	8	2	1	....	....
Ionia	159	30	129	21	8	1	....	....	....	29	26	32	26	10	5	1	....	....
Iosco	23	3	20	2	1	....	....	....	....	1	4	5	4	6	.....	....	....	....
Isabella	26	5	21	2	2	1	....	....	....	1	5	4	2	6	2	1	....	....
Jackson	160	28	132	16	12	....	....	....	....	35	31	37	21	7	1	....	....	....
Kalamazoo	151	21	130	16	5	....	....	....	....	37	38	28	14	12	.....	....	....	1
Kalkaska	4	1	3	1	.....	....	....	....	....	1	.....	.....	2	.....	.....	....	....	....
Kent	237	28	209	21	6	1	....	....	....	53	59	48	25	22	.....	2	....	....
Keweenaw [b]	.....	.....	.....	.....	.....	....	....	....	....	.....	.....	.....	.....	.....	.....	....	....	....

[a] Not legal marriages. For law and penalty to persons solemnizing, see sections (4719.), (4720.), (4728.), and (4729.), Compiled laws of 1871, pages 1462, 1463, printed also in back part of this Report. [b] No returns of marriages to this Department.

Digitized by Google

TABLE IX.—CONTINUED.

COUNTIES.	Total No. Married under 21 Years of Age.	Males Married under 21 Years of Age.	Females Married under 21 Years of Age.	Ages of Males.						Ages of Females.								
				Twenty.	Nineteen.	Eighteen.	Seventeen.[a]	Sixteen.[a]	Fifteen.[a]	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.[a]	Fourteen.[a]	Thirteen.[a]	Twelve.[a]
Lake[b]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lapeer	100	14	86	11	3	.....	.....	.....	.....	12	17	26	18	12	1	.....	.....	.....
Leelanaw	24	3	21	2	.....	1	.....	.....	.....	.....	7	6	2	5	1	.....	.....	.....
Lenawee	224	35	189	18	9	7	1	.....	.....	39	37	52	40	19	1	.....	1	.....
Livingston	71	14	57	9	3	2	.....	.....	.....	12	18	12	10	7	3	.....	.....	.....
Mackinac[b]	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macomb	127	20	107	12	8	.....	.....	.....	.....	22	27	30	23	3	2	.....	.....	.....
Manistee	32	1	31	.....	1	.....	.....	.....	.....	4	8	6	6	4	2	1	.....	.....
Manitou	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Marquette	71	10	61	6	2	1	.....	1	.....	14	11	18	7	9	2	.....	.....	.....
Mason	27	3	24	2	1	.....	.....	.....	.....	3	5	4	4	3	3	2	.....	.....
Mecosta	32	2	30	1	.....	1	.....	.....	.....	5	4	7	5	9	.....	.....	.....	.....
Menominee	8	.....	8	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....
Midland	16	2	14	1	1	.....	.....	.....	.....	3	.....	4	3	1	1	2	.....	.....
Missaukee	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Digitized by Google

Monroe	108	18	90	12	5	1	....	....	....	85	10	90	11	14	2	....	....	....
Montcalm	75	10	65	8	.....	2	....	....	....	18	18	15	11	10	2	1	....	....
Muskegon	66	7	59	8	3	1	....	....	....	11	11	19	9	7	2	....	....	....
Newaygo	51	5	46	2	1	....	1	....	1	8	5	11	4	12	4	2	....	....
Oakland	157	23	134	12	8	2	1	....	....	30	37	33	22	11	1	....	....	....
Oceana	31	4	27	1	1	2	...	....	....	.....	3	6	5	9	3	1	....	....
Ontonagon	3	.....	3	.....	.....	....	....	....	....	.....	1	.....	2	.....	.....	....	....	....
Osceola	23	6	17	2	4	....	....	....	....	3	2	5	4	1	2	....	....	....
Ottawa	112	9	103	5	4	....	....	....	....	19	23	26	20	10	5	....	....	....
Presque Isle [c]	.....	.....	.....	.....	.....	....	....	....	....	.....	.....	.....	.....	.....	.....	....	....	....
Saginaw	187	20	167	13	6	1	....	....	....	49	24	31	34	24	5	....	....	....
Sanilac	65	7	58	5	1	1	....	....	....	12	15	11	6	12	1	1	....	....
Schoolcraft [c]	.....	.....	.....	.....	.....	....	....	....	....	.....	.....	.....	.....	.....	.....	....	....	....
Shiawassee	98	15	83	10	2	2	1	....	....	18	12	32	14	5	2	....	....	....
St. Clair	159	19	140	6	7	5	1	....	....	26	31	46	18	17	1	1	....	....
St. Joseph	153	19	134	9	7	3	....	....	....	39	23	31	28	12	1	....	....	....
Tuscola	75	12	63	8	4	....	....	....	....	12	13	12	10	13	2	1	....	....
Van Buren	136	25	111	18	5	2	....	....	....	24	22	18	24	17	6	....	....	....
Washtenaw	137	24	113	18	5	1	....	....	....	43	26	22	20	2	.....	....	....	....
Wayne	447	46	401	29	10	5	1	1	....	100	111	97	53	34	6	....	....	....
Wexford	7	.....	7	.....	.....	....	....	....	....	1	1	.....	2	2	1	....	....	....

[a] Not legal marriages. For law and penalty to persons solemnizing, see Sections (4719.), (4720.), (4728.), and (4729.), Compiled Laws of 1871, pages 1462, 1463, printed also in back part of this Report. [b] No marriages returned to County Clerk. [c] No returns of marriages to this Department.

Digitized by Google

In the last Report, by quoting the law on the subject, attention was called to the fact that marriages had been reported which were not in accordance with the law for the reason that the persons married were not of proper age. During the year 1870, only 119 such illegal marriages were reported, but for 1871 it appears by Table IX. that there were 159 such marriages returned. The legal penalty for such action appears to be such that the persons pretending to solemnize marriage under such circumstances "shall forfeit for every such offense a sum not exceeding five hundred dollars." The offender may also be imprisoned in the county jail not more than one year. If the penalty were enforced a few times, it might have the effect of preventing a large number of such illegal marriages, and much litigation in the future concerning inherited rights to property, as well as much shame to children because of illegitimacy. If it were not that the evidence of it is contained in the certificates of the persons who solemnize these marriages, it would seem almost impossible that justices of the peace and ministers of the gospel should disregard the law in so important a matter as solemnizing marriages.

A consideration of the facts suggests the propriety of withdrawing the power to do so much mischief from the hands of a large class of these ill-informed and irresponsible persons, and of placing marriage contracts under the charge of some responsible and prominent civil officer, permitting religious ceremony if desired, but providing legal steps which should be required in every case, and which should at least be as strict as those for the conveyance of property or estate in any other manner. Perhaps it might do much to remedy this evil if a law were passed requiring parties contracting marriage to record the contract in the same manner as deeds and other conveyances of real estate are now recorded, such contract and record to state the date when the contract is to take effect, which date should not precede the date of record.

Digitized by Google

TABLE X.—*Exhibiting the Number of each Sex, at each Period of Age, who were Married in Michigan during the year 1871; and the Number of each Sex, at each Period of Age, who were United to the Opposite Sex, at each Period of Age.*

AGES OF MALES.	AGES OF FEMALES.															Total Males.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Over 80.	Unknown.	
Under 20	228	59	4	1	1	....	....	..	..	..	..	..	..	..	....	293
20 to 25	2,143	1,698	225	27	9	1	....	..	..	..	..	..	..	..	15	4,113
25 to 30	943	1,427	544	74	30	13	3	1	..	..	..	..	..	..	24	3,059
30 to 35	206	391	268	138	32	19	4	1	..	..	..	..	..	..	5	1,064
35 to 40	67	126	176	98	78	22	5	..	..	..	..	..	..	..	2	569
40 to 45	13	61	78	71	51	38	9	4	..	1	..	..	..	..	....	326
45 to 50	7	19	30	42	49	48	24	6	2	..	..	..	..	..	1	228
50 to 55	3	6	14	23	34	31	25	16	6	5	..	1	..	..	1	165
55 to 60	1	3	11	9	8	26	25	10	11	3	1	..	1	..	3	112
60 to 65	1	.....	4	4	7	16	19	23	13	9	1	..	..	..	....	97
65 to 70	.....	1	2	1	2	5	5	5	9	6	8	..	..	..	1	45
70 to 75	1	.....	2	1	1	1	3	5	2	2	6	1	..	..	....	25
75 to 80	.....	.....	.....	....	....	....	....	3	..	5	..	..	..	1	....	9
80 and over	.....	.....	.....	....	....	....	....	1	..	..	..	..	..	..	....	1
Unknown	1	3	.....	1	....	....	....	..	..	..	..	..	..	..	70	75
Total Femal's	3,614	3,789	1,358	485	302	220	122	75	43	31	16	2	1	1	122	10,181

Table X. is a very comprehensive table, but one which seems to require a little explanation to those not familiar with it. It exhibits for each period of age the number of each sex married, and the manner of their union as regards age stated in periods of years. It shows, for instance, that 293 males aged under 20, married females aged as follows: 228, under 20; 59, 20 to 25; 4, 25 to 30; 1, 30 to 35; and 1 aged 35 to 40. Turning to the column of "Total females," we find that

Digitized by Google

3,614 aged under 20 were married to males aged as follows: 228, under 20; 2,143, 20 to 25; 943, 25 to 30; 206, 30 to 35; 67, 35 to 40; 13, 40 to 45; 7, 45 to 50; 3, 50 to 55; 1, 55 to 60; 1, 60 to 65; 1, 70 to 75; and 1 whose age was unknown.

The greatest number of marriages of males and of females were of those aged 20 to 25, the number of males at such ages being 4,113, and the number of females 3,789.

The greatest number of marriages of one sex at one period of age to the greatest number of the opposite sex at any period, was, as is usually the case, of females aged under 20 to males aged 20 to 25; the number of such marriages returned for 1871 being 2,143.

Table XI. exhibits some of the most remarkable marriages so far as relates to disparity of age, and to unusual age. It will be noticed that many of them are not legal marriages, while some are marked instances of entire disregard of the law of the State; thus, in Kalamazoo county, the "bride" in one of these sham marriages is stated to be twelve years of age. The name of the minister of the gospel who thus rendered himself liable to serve a year in the county jail is on record with the clerk of the county, and also in the State Department.

Digitized by Google

TABLE XI.—*Marriages, with great Disparity of Age, in Michigan during the Year ending December 31, 1871.*

COUNTIES.	Bridegroom Oldest.			Bride Oldest.		
	Occupation of Bridegroom.	Age of Bridegroom.	Age of Bride.	Occupation of Bridegroom.	Age of Bridegroom.	Age of Bride.
Allegan	Farmer	[a] 40	[a] 16	Farmer	26	53
Barry	Farmer	62	28	----	----	----
Bay	Lumberman	55	21	----	----	----
Benzie	Farmer	67	24	----	----	----
Berrien	Physician	58	17	----	----	----
Branch	Attorney at law	60	26	Farmer	23	39
Calhoun	Machinist	47	16	Laborer	[b] 24	[b] 40
Cass	Farmer	67	33	Cabinet-maker	29	39
Cheboygan	Merchant	56	25	----	----	----
Clinton	Farmer	71	38	----	----	----
Eaton	Farmer	55	16	----	----	----
Genesee	Farmer	40	17	----	----	----
Grand Traverse	Farmer	29	15	----	----	----
Gratiot	Physician	57	20	----	----	----
Hillsdale	Farmer	74	19	Brakeman	20	30
Huron	Farmer	48	23	----	----	----
Ingham	Farmer	46	21	Farmer	20	37
Ionia	Farmer	45	17	Farmer	26	40
Isabella	Mechanic	35	19	----	----	----
Jackson	Farmer	71	32	Carpenter	28	40
Kalamazoo	Barber Farmer	[b] 60 19	[b] 34 12	Farmer	19	25
Kent	Painter	57	28	Farmer	22	37
Lapeer	Farmer	30	16	----	----	----
Leelanaw	Farmer	63	31	----	----	----
Lenawee	Farmer	23	13	Farmer	[c] 29	[c] 44
Livingston	Laborer Farmer	52 66	18 26	----	----	----
Macomb	Physician	58	27	Farmer	29	40

[a] Colored. [b] African. [c] Mulatto.

Digitized by Google

TABLE XI.—CONTINUED.

COUNTIES.	Bridegroom Oldest.			Bride Oldest.		
	Occupation of Bridegroom.	Age of Bridegroom.	Age of Bride.	Occupation of Bridegroom.	Age of Bridegroom.	Age of Bride.
Manistee	Farmer	51	15	Laborer	26	43
Marquette	Miner	42	22	Contractor	16	21
Mason	Farmer	35	17	Laborer	75	[a] 30
Mecosta	Physician	69	48	----	----	----
Midland	Laborer	38	14	----	----	----
Monroe	Farmer	33	17	Farmer	29	40
Montcalm	Farmer	45	24	----	----	----
Muskegon	Farmer	37	18	Farmer	27	35
Newaygo	Mechanic	39	16	Engineer Farmer	15 23	23 36
Oakland	Farmer Laborer	39 [b] 45	19 [b] 16	Farmer	21	34
Oceana	Laborer	39	19	----	----	----
Ontonagon	Carpenter	35	17	Carpenter	35	45
Osceola	Workman	51	30	----	----	----
Ottawa	Engineer Carpenter	36 35	15 17	Farmer Laborer	56 52	77 70
Saginaw	Merchant Farmer	44 54	18 22	Baker Farmer Carpenter	30 25 26	49 45 43
Sanilac	Hotel-keeper	40	20	Hotel-keeper	21	26
Shiawassee	Farmer	35	18	Farmer	24	34
St. Clair	Farmer Laborer	45 38	19 16	Laborer Laborer	23 17	37 20
St. Joseph	Trapper Farmer	56 60	28 40	----	----	----
Tuscola	Merchant	49	17	Blacksmith	22	35
Van Buren	Farmer Farmer	60 70	33 46	Farmer	27	38
Washtenaw	Laborer	[b] 73	[c] 26	Farmer	32	50
Wayne	Shoemaker Farmer	[b] 16 45	[b] 16 15	Farmer Laborer	22 19	42 36
Wexford	Farmer	25	15	----	----	----

[a] Indian. [b] African. [c] Mulatto.

Digitized by Google

TABLE XII.—*Exhibiting, for the State and Counties, the Number of Marriages in Michigan during the Years 1868, 1869, 1870, and 1871, as first Returned to the State Department; the Number Solemnized during the Years 1868, 1869, and 1870, Returned since the publication of the Annual Reports; the Population June 1, 1870; Number of Inhabitants in 1870 to one Marriage in 1871; and the Per Cent. of Marriages in 1871 to Population in 1870.*

STATE AND COUNTIES.	MARRIAGES.												Population June 1, 1870.[a]	No. of Inhabitants June 1, 1870, to one marriage in 1871.	Per Cent. of marriages in 1871 to population June 1, 1870.[a]
	1868.				1869.				1870.			1871.			
	No. as first returned and published in Report.	No. returned previous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previous to May 1, 1873.	No. as first returned and published in Report.	No. returned previous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previous to May 1, 1873.	No. as first returned and published in Report.	No. returned since Report was published.	No. returned previous to May 1, 1873.	No. returned.			
State	6,862	8,605	30	8,635	8,459	10,088	96	10,184	9,160	483	9,643	10,181	1,176,659	116	.86
Alcona	.....	.....	.....	.....	5	7	.....	7	8	.....	8	3	[b] 766	255	.39
Allegan	167	239	.....	239	260	260	.....	260	277	1	278	215	32,105	149	.66
Alpena	24	24	.....	24	42	42	1	43	6	1	7	26	2,756	106	.94
Antrim	15	15	.....	15	14	14	.....	14	16	.....	16	18	1,965	110	.90
Barry	130	148	.....	148	140	167	1	168	169	1	170	156	22,200	142	.70

[a] Except of counties from which no returns of marriages in 1871 were received.

[b] Includes population of Oscoda County.

Digitized by Google

TABLE XII.—CONTINUED.

COUNTIES.	MARRIAGES.												Population June 1, 1870.[a]	No. of Inhabitants June 1, 1870, to one marriage in 1871.	Per Cent. of marriages in 1871, to population June 1, 1870.[a]
	1868.				1869.				1870.			1871.			
	No. as first returned and published in Report.	No. returned previous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previous to May 1, 1873.	No. as first returned and published in Report.	No. returned previous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previous to May 1, 1873.	No. as first returned and published in Report.	No. returned since Report was published.	No. returned previous to May 1, 1873.	No. returned.			
Bay	113	113	2	115	86	86	6	92	125	1	126	118	15,900	135	.74
Benzie	.....	.....	.....	.....	12	12	.....	12	18	.....	18	17	2,184	128	.77
Berrien	325	448	1	449	314	381	11	392	288	67	355	377	35,104	93	1.07
Branch	209	264	.....	264	235	275	.....	275	265	6	271	263	26,227	100	1.00
Calhoun	217	280	.....	280	164	278	.....	278	280	7	287	270	36,571	135	.73
Cass	170	223	1	224	149	181	.....	181	188	1	189	199	21,096	106	.94
Charlevoix	.....	.....	.....	.....	6	6	.....	6	18	.....	18	18	1,724	96	1.04
Cheboygan	9	9	.....	9	5	15	.....	15	14	.....	14	21	2,197	105	.95
Chippewa	.....	.....	.....	.....	.....	13	.....	13	13	.....	13	11	1,690	154	.65
Clare	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	366	28	3.55
Clinton	187	191	.....	191	156	218	.....	218	177	4	181	168	22,851	136	.73

Digitized by Google

Delta	5	15	.....	15	.....	6	.....	6	21	.....	21	15	2,441	168	.61
Eaton	113	161	.....	161	143	198	.....	198	211	.....	211	225	25,168	112	.89
Emmet	15	15	.....	15	12	13	.....	13	11	.....	11	14	1,211	87	1.15
Genesee	182	276	1	277	248	331	6	337	306	4	310	254	33,895	133	.74
Grand Traverse	52	52	.....	52	31	36	.....	36	20	.....	20	33	4,443	135	.74
Gratiot	85	85	.....	85	90	90	.....	90	74	.....	74	110	11,808	107	.93
Hillsdale	210	277	.....	277	223	328	2	330	320	5	325	322	31,688	98	1.01
Houghton	62	62	4	66	63	63	9	72	.....	24	24	90	13,882	154	.64
Huron	47	47	.....	47	67	67	.....	67	72	.....	72	63	9,048	144	.69
Ingham	104	117	1	118	168	220	1	221	208	6	214	235	25,268	108	.93
Ionia	184	224	.....	224	206	240	2	242	211	5	216	249	27,675	111	.89
Iosco	13	13	.....	13	14	14	.....	14	28	.....	28	44	3,175	72	1.38
Isabella	40	49	.....	49	32	32	.....	32	37	.....	37	38	4,113	108	.92
Jackson	171	269	.....	269	236	339	15	354	214	126	340	307	36,040	117	.85
Kalamazoo	210	299	.....	299	231	334	1	335	330	3	333	300	32,065	107	.93
Kalkaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	424	141	.70
Kent	399	399	1	400	505	515	9	524	399	25	424	489	50.410	103	.97
Keweenaw	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lapeer	106	140	.....	140	139	173	.....	173	184	1	185	155	21,342	138	.72
Leelanaw	45	46	.....	46	42	43	.....	43	29	.....	29	43	4,577	106	.93

* Except of counties from which no returns of marriages in 1871 were received.

Digitized by Google

TABLE XII.—CONTINUED.

COUNTIES.	MARRIAGES.												Population June 1, 1870.[a]	No. of Inhabitants June 1, 1870, to one marriage in 1871.	Per Cent. of marriages in 1871, to Population June 1, 1870.[a]
	1868.				1869.				1870.			1871.			
	No. as first returned and published in Report.	No. returned previous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previous to May 1, 1873.	No. as first returned and published in Report.	No. returned previous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previous to May 1, 1873.	No. as first returned and published in Report.	No. returned since Report was published.	No. returned previous to May 1, 1873.	No. returned.			
Lenawee	237	424	.....	424	325	474	9	488	398	28	421	419	45,601	109	.91
Livingston	116	142	.....	142	119	141	1	142	108	8	116	189	19,335	189	.66
Mackinac	.....	.....	.....	.....	.....	.....	.....	.....	16	.....	16	.....	.....	.....	.....
Macomb	185	185	.....	185	161	213	.....	213	206	2	208	228	27,619	121	.82
Manistee	27	28	.....	28	68	83	.....	83	81	3	84	85	6,074	71	1.39
Manitou	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	891	223	.44
Marquette	45	45	.....	45	75	81	.....	81	145	.....	145	145	14,278	98	1.01
Mason	21	23	.....	23	27	27	.....	27	25	1	26	36	3,266	91	1.10
Mecosta	52	57	.....	57	74	82	.....	82	56	.....	56	62	5,645	91	1.09
Menominee	18	18	.....	18	11	11	.....	11	4	.....	4	8	1,895	237	.42
Midland	24	28	.....	28	27	27	.....	27	29	.....	29	25	3,283	131	.76

Digitized by Google

Missaukee	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	1	180	180	.76
Monroe	122	146	1	147	213	224	4	228	204	9	213	206	27,475	133	.74
Montcalm	70	80	.....	80	88	96	.....	96	90	.....	90	125	13,641	109	.91
Muskegon	70	71	.....	71	153	158	.....	158	101	.....	101	129	14,892	115	.86
Newaygo	51	54	.....	54	58	58	.....	58	47	12	59	66	7,292	110	.90
Oakland	153	207	1	207	330	332	2	334	311	10	321	334	40,906	122	.81
Oceana	77	81	.....	81	64	79	.....	79	54	.....	54	60	7,222	120	.83
Ontonagon	7	9	.....	9	15	15	.....	15	9	.....	9	6	2,846	474	.21
Osceola	.....	.....	.....	.....	15	15	.....	15	14	.....	14	31	2,104	68	1.47
Ottawa	183	207	.....	207	177	215	.....	215	180	7	187	202	26,650	132	.75
Presque Isle	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saginaw	152	152	1	153	182	88	.....	88	309	1	310	382	39,098	102	.97
Sanilac	77	92	.....	92	91	107	.....	107	91	.....	91	96	14,565	152	.65
Schoolcraft	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....	.....	.....
Shiawassee	155	158	.....	158	129	170	.....	170	114	8	122	146	20,822	143	.70
St. Clair	229	229	16	245	264	266	12	278	285	23	308	304	36,759	121	.82
St. Joseph	214	290	.....	290	289	312	1	313	231	5	236	309	26,272	85	1.17
Tuscola	76	77	.....	77	74	74	.....	74	97	.....	97	111	13,715	124	.80
Van Buren	167	227	.....	227	179	233	1	234	208	5	213	221	28,835	130	.76
Washtenaw	216	287	.....	287	300	363	1	364	288	25	313	300	41,440	138	.72
Wayne	564	793	.....	793	904	1,148	1	1,149	919	48	967	1,111	119,068	107	.93
Wexford	.....	.....	.....	.....	4	4	.....	4	5	.....	5	8	650	81	1.23

a Except of counties from which no returns of marriages in 1871 were received.

Digitized by Google

EXHIBIT D.—*Number of Inhabitants to one Marriage, as stated for Different Foreign Countries, the United States, and some of the States of the Union. The Statements for Michigan include only the Inhabitants of Counties Represented by Returns of Marriages.*

COUNTRY, STATE, OR CITY.	Year for which the Statement is made.	Inhabitants to one Marriage Annually.	
Austria	.....	117	Taken from "Statistics of Minnesota for 1869."
Bavaria	.....	160	
Belgium	.....	122	
Denmark	.....	129	
England	.....	122	
Finland	.....	141	
France	.....	122	
Greece	.....	174	
Holland	.....	129	
Norway	.....	124	
Prussia	.....	106	
Russia	.....	111	
Saxony	.....	107	
Spain	.....	141	
Sweden	.....	135	
United States	1860	122	
New York	1860	135	
Massachusetts	1865	97	
Ohio	.....	105	
Minnesota	1860	110	
Minnesota	1868	107	
Minnesota [a]	1870	116	
Massachusetts [b]	1870	98.9	
Michigan [c]	1869	109.8	
Michigan [d]	1870	120.7	
Michigan [c e]	1871	121.0	
New Jersey [f]	1870	135.	
New York City [g]	1869	108.	
New York City [h]	1870	118.	

[a] Taken from "Statistics of Minnesota for 1870."
[b] Computed from data in 29th Reg. Report of Massachusetts.
[c] Marriages corrected up to May 1, 1873. Population estimated from censuses of 1860 and 1870.
[d] Marriages corrected up to May 1, 1873.
[e] Marriages in some counties during last quarter of year not yet all returned.
[f] There were sixteen townships from which no returns of marriages were received. Computed from data in Reg. Report of New Jersey for 1870.
[g] Computed from data in Report of Met. Board of Health for 1869.
[h] Computed from data in Report of Board of Health, of Health Department, for 1870.

Digitized by Google

DEATHS.

The whole number of deaths returned * as having occurred in Michigan during the year ending December 31, 1871, was 9,728. This was 1,038 less than the number returned for the year 1870, and 583 more than was returned for 1869. Judging from the returns, then, the death-rate was less during the year 1871 than during the year 1870.

TABLE I.—*Deaths in Michigan by Quarters of the Year, Exhibiting the Number and Per Cent. of Total Returned for the Years 1868, 1869, 1870, and 1871.*

Totals, and Months with which Quarters End.	1868.		1869.		1870.		1871.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
Totals	8,235	100.00	9,145	100.00	10,766	100.00	9,728	100.00
March	1,789	21.70	1,758	19.22	1,698	15.77	1,888	19.41
June	*1,568	19.04	1,994	21.80	2,121	19.70	2,097	21.55
September	2,771	33.64	2,949	32.24	3,920	36.41	2,926	30.08
December	2,046	24.84	2,396	26.20	2,992	27.79	2,760	28.37
Unknown	63	.76	48	.52	35	.32	57	.58
Average	2,058.75	25.00	2,286.25	25.00	2,691.50	25.00	2,432	25.00

* The number of deaths for the month of April, 1868, was increased by one-fifth of the number published in the Second Registration Report, because of first five days not accounted for.

The proportion of deaths by quarters of the year was very different in the two years, 1870 and 1871, as may be seen by

* The number of deaths which probably occurred has been estimated at 15,665, as shown in Exhibit G, wherein correction is made for omissions in enumerating.

Digitized by Google

examining Table I., which exhibits the number and per cent. of deaths returned for each quarter of the years 1868, 1869, 1870, and 1871. The proportion of deaths returned for the last half of 1870 and the first half of 1871 was considerably greater than during the first half of 1870 and the last half of 1871, so that if the years be made to begin June 1, as in the United States Census, the number of deaths in the year ending May 31, 1870, is found to be less than during the year ending May 31, 1871, but it will be seen from Table I. that this is due to the unusually large proportion of deaths returned for the quarter ending with September, 1870. By Table II. it will be seen that the increase in the deaths returned began in June, 1870. That the enumeration for the United States Census began June 1, 1870, and was in progress during the three months following, is a fact which may or may not have any significance in this connection. As stated in last Report, "the year 1870 is believed to have been attended with more than an average rate of mortality." It may be true that at least some proportion of this increased mortality was only apparent, and that this appearance was the result of an increased thoroughness of the enumeration, due to increased attention attracted to the subject by the labors of census enumerators and other officials. Table II. of births, in this Report, does not seem to furnish evidence giving much support to this supposition, but the subject seems worthy of notice and of examination whenever future censuses shall make it possible.

The averages, as usually given, of deaths as returned were as follows:

Average number of deaths per quarter	2,432.00
Average number of deaths per month	810.66
Average number of deaths per week	187.07
Average number of deaths per day	26.65

It should be remembered, however, that it is not probable that all deaths are returned. Further on, certain correc-

Digitized by Google

tions will be exhibited which lead to the belief that if the deaths had been enumerated in the months when they occurred the number returned would have been 15,665, instead of 9,728. It is thus found that the average numbers of deaths which probably occurred during specified periods of time were as follows:

Average number of deaths per quarter	3,916.25
Average number of deaths per month	1,305.42
Average number of deaths per week	301.25
Average number of deaths per day	42.92

Digitized by Google

TABLE II.—*Deaths in Michigan by Months, Exhibiting the Number and Per Cent. of Total Returned for the Years 1868, 1869, 1870, and 1871, the Months arranged in order by Number of Deaths, the greatest Number first.*

Order.	1868.			1869.			1870.			1871.		
	Year and Months.	Number.	Per Cent. of Total.	Year and Months.	Number.	Per Cent. of Total.	Year and Months.	Number.	Per Cent. of Total.	Year and Months.	Number.	Per Cent. of Total.
	Year..	8,235	100.00	Year..	9,145	100.00	Year.	10,766	100.00	Year.	9,728	100.00
1	Sept...	1,041	12.51	Sept..	1,194	13.05	Aug..	1,473	13.59	Aug..	1,083	11.13
2	Aug...	988	11.98	Aug...	1,068	11.60	Sept..	1,363	12.66	Sept..	1,055	10.84
3	Oct....	776	9.42	Oct....	874	9.55	Oct...	1,132	10.51	Dec..	1,029	10.58
4	July ..	747	9.07	Dec....	836	9.14	July .	1,084	10.06	Oct...	933	9.59
5	March.	669	8.12	March.	761	8.32	Nov..	933	8.66	Nov..	798	8.20
6	Dec. ..	668	8.11	April..	712	7.78	Dec...	927	8.61	July..	788	8.10
7	Nov...	602	7.31	July ..	687	7.51	June.	754	7.00	Mar...	781	8.03
8	Feb. ..	583	7.07	Nov...	686	7.50	Mar...	724	6.73	May..	750	7.71
9	April [a]	[a] 583	7.07	May...	652	7.13	May..	689	6.39	April.	721	7.41
10	Jan....	535	6.49	June..	630	6.89	April.	678	6.29	June.	626	6.43
11	May...	503	6.10	Feb. ..	561	6.13	Feb...	553	5.13	Feb...	578	5.94
12	June..	482	5.85	Jan....	436	4.77	Jan...	421	3.91	Jan...	529	5.44
	Unk...	63	.76	Unk...	48	.52	Unk..	35	.32	Unk..	57	.59
	Av.....	686.25	8.33	Av.....	762.08	8.33	Av. ..	897.16	8.33	Av. ..	810.66	8.33

[a] The number of deaths for April, 1868, is increased by one-fifth of the number published in the Second Registration Report, for the reason that the first five days of that month were not included in that Report. The number for the last twenty-five days was 486; 486÷5=97; 486+97=583—estimated number of deaths for April, 1868.

Table II. exhibits the mortality by months, as appears by the returns of deaths for the years 1868, 1869, 1870, and 1871, the months being so arranged that those come first for which the greatest number of deaths were returned. In 1871, as in 1870, the greatest number were returned for August and the least number for January.

No attempt will be made in this connection to trace, as has heretofore been done, the causes assigned for the deaths in months for which the greatest number were returned, for the reason that, if these statistics are ever to be studied in that man-

Digitized by Google

ner, as it certainly seems desirable to do, we want first to know the real proportion by months, and there is reason for the belief that under the present law we do not learn this by accepting the immediate statements of the returns, but must first make a correction for the omission of deaths because their record and enumeration is delayed until after the close of the year for which the returns are made.

An examination of Exhibit B, and more particularly the two columns for Michigan during the census year, will convince one that an attempt to learn the exact order of greatest mortality by months is a difficult undertaking, as these statistics are now collected. An effort has been made, however, as will be seen by Exhibits C, D, E, F, and G, and remarks concerning them.

TABLE III.—*Number and Percentage of Deaths of Males and Females from all Causes, as Returned, by Months.* (*Unknown Sex Excluded.*)

Year and Months.	Number.		Percentage.				Males to 100 Femal's
	Males.	Femal's	Males.	Femal's	Excess.		
					Males.	Femal's	
Year 1871	5,190	4,508	53.54	46.46	7.08	.....	115.3
January	290	238	54.92	45.08	9.84	.....	121.9
February	283	293	49.13	50.87	.....	1.74	96.6
March	418	359	53.80	46.20	7.60	.....	116.4
April	379	342	52.57	47.43	5.14	.....	110.8
May	379	369	50.67	49.33	1.34	.....	102.7
June	329	295	52.72	47.28	5.44	.....	111.5
July	442	342	56.38	43.62	12.76	.....	129.2
August	572	507	53.01	46.99	6.02	.....	112.8
September	562	490	53.42	46.58	6.84	.....	114.7
October	567	421	54.63	45.37	9.26	.....	120.4
November	444	352	55.78	44.22	11.56	.....	126.1
December	557	469	54.29	45.71	8.58	.....	118.8
Unknown months	28	26	51.85	48.15	3.70	.....	107.7

Digitized by Google

EXHIBIT A.—*Deaths of each Sex, and Total Number, in Michigan during the Year 1871, by Months Equalized to 30.44 days each ;—Number of Deaths in each Month ; Per Cent. of Deaths in each Month to Total Deaths during the year ; and Per Cent. and Excess of Per Cent. of Deaths of each Sex to Total of both Sexes.*

YEAR AND MONTHS.	Number of Deaths, as Equalized.				Per Cent. of Deaths in each Month to Total During the Year.				Per Cent. of each Sex to Total of Both Sexes, Unknown Excluded.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Males.	Females.	Excess. Males.	Excess. Fem'ls.
Year 1871	9,728	5,190	4,503	35	100.00	100.00	100.00	100.00	53.54	46.46	7.08	.....
January	521	285	235	1	5.35	5.49	5.22	2.86	54.81	45.19	9.62	.....
February	629	309	318	2	6.47	5.95	7.06	5.71	49.28	50.72	.....	1.44
March	768	411	353	4	7.89	7.92	7.84	11.43	53.80	46.20	7.60	.....
April	733	386	347	.....	7.53	7.44	7 70	.....	52.66	47.34	5.32	.....
May	737	373	362	2	7.58	7.19	8.04	5.71	50.75	49.25	1.50	.....
June	635	334	299	2	6.53	6.44	6.64	5.71	52.76	47.24	5.52	.....
July	774	435	335	4	7.96	8.38	7.44	11.43	56.49	43.51	12.98	.....
August	1,065	562	499	4	10.95	10.83	11.08	11.43	52.97	47.03	5.94	.....
September	1,071	571	497	3	11.01	11.00	11.04	8.57	53.46	46.54	6.92	.....
October	916	498	413	5	9.42	9.59	9.17	14.28	54.67	45.33	9.34	.....
November	810	451	357	2	8.33	8.69	7.93	5.71	55.82	44.18	11.64	.....
December	1,012	547	462	3	10.40	10.54	10.26	8.57	54.21	45.79	8.42	.....
Unknown	57	28	26	3	.59	.54	.58	8.57	51.85	48.15	3.70	.....
Average *	805.917	430.167	373.083	2.667	8.33	8.33	8.33	8.33	.....	.....	.....	.....

* Unknown month excluded.

Digitized by Google

EXHIBIT B.—*Months arranged in Order by Number of Deaths,—those having the greatest Number first,—in Massachusetts for the Years 1867 to 1870, inclusive; in Kentucky for the Year 1853; in Michigan for the Census Year ending June 1, 1870, by the U. S. Census and by the State Registration Returns, for the Years 1869, 1870, and 1871 as per Registration Returns, and for the Years 1870 and 1871 Corrected for Omissions in Enumeration; also in Rhode Island for the Year 1871.*

Order.	Massachusetts.				Kentucky.	Michigan, for the Census Year ending June 1, 1870.		Michigan, as per Registration Returns.			Michigan,—Corrected for Omissions in Enumeration.		Rhode Island.
	1867.	1868.	1869.	1870.	1853.	Returned by Census Marshals.	Registrat'n Returns.	1869.	1870.	1871.	1870.	1871.	1871.
1	Aug.	Aug.	Aug.	Aug.	Aug.	March.	Sept.	Sept.	Aug.	Aug.	Aug.	Aug.	Aug.
2	Sept.	Sept.	Sept.	July.	July.	May.	Aug.	Aug.	Sept.	Sept.	Sept.	Sept.	July.
3	Dec.	July.	March.	Sept.	Sept.	Aug.	Oct.	Oct.	Oct.	Dec.	July.	March.	Sept.
4	Jan.	March.	July.	Oct.	Oct.	Sept.	Dec.	Dec.	July.	Oct.	Oct.	Dec.	Dec.
5	March.	Oct.	Oct.	March.	Dec.	April.	March.	March.	Nov.	Nov.	March.	Oct.	March.
6	July.	Dec.	May.	Dec.	June.	Feb.	May.	April.	Dec.	July.	June.	May.	Feb.
7	Nov.	April.	April.	Nov.	March.	Oct.	July.	July.	June.	March.	April.	April.	Oct.
8	Oct.	Feb.	Dec.	Jan.	April.	Dec.	Nov.	Nov.	March.	May.	Nov.	July.	Jan.
9	May.	Jan.	Jan.	May.	Nov.	Jan.	April.	May.	May.	April.	May.	Feb.	Nov.
10	Feb.	Nov.	Feb.	April.	Feb.	July.	June.	June.	April.	June.	Dec.	Nov.	April.
11	April.	May.	Nov.	Feb.	May.	Nov.	Feb.	Feb.	Feb.	Feb.	Feb.	Jan.	May.
12	June.	June.	June.	June.	Jan.	June.	Jan.	Jan.	Jan.	Jan.	Jan.	June.	June.

Digitized by Google

For the ninth United States Census the Marshals enumerated and returned the details of the deaths which occurred during the year ending June 1, 1870. In compiling these statistics the writer was able to compare them with similar statistics relating to the deaths during the same time but which were collected by different officers at a different time; in fact, part of the registration statistics for the census year were collected by the Supervisors in May, 1870, and part in May, 1871. This comparison revealed the fact that the statistics collected by the Supervisors for the first seven months of the census year,—June to December, 1869, inclusive,—were very similar to those collected by the Assistant Marshals. This may be best seen by examining the diagram representing the deaths by the registration returns and by the census, as returned and as corrected. By this same diagram it will be seen, however, that for the last five months of the census year there was a marked difference in the statistics from these two sources. Compared with the census returns, it will be seen that the number of deaths returned by the Supervisors dropped down to a lower plane. So far as appears to the writer, the only fact which will satisfactorily account for this difference is the one connected with the different time at which the deaths during the last five months of the census year were enumerated, they being collected by the Supervisors in May, 1871, while those during the preceding seven months were collected in May, 1870. By the census, the deaths for the year were enumerated in June, July, and August, 1870. It seems reasonable to conclude that the greater length of time which passed before the deaths for the last five months were enumerated is the cause of the discrepancy in the statistics, and that if they had been enumerated one year before, the line representing them in the diagram would have continued on to the close of the census year with, or above, the line representing the deaths as returned by the Census Marshals. We thus find evidence which leads to a "correction for one year additional time before enumeration,"

Digitized by Google

as shown in the second line of Exhibit C, and which is arrived at as follows:

Census.				Registration.		
Dec., 1869	:	Jan., 1870.		Dec., 1869	:	Jan., 1870.
801	:	800	::	836	:	X

whence X=834. The number actually returned by the Supervisors was only 421. 834—421=413=98.09 per cent. of 421, the number returned. An examination of the statistics leads to the belief that the omissions bear such a relation to the time elapsing before the enumeration of deaths that it is proper to correct them in proportion to the length of that time; so that if a delay of one year results in omissions which require that deaths returned be increased by 98.09 per cent., in order to make them equal the number which occurred, a delay of one month requires that they be increased by one-twelfth of 98.09 per cent., and in the same proportion for intervening periods of time. It thus seems probable that during the census year the number of deaths which occurred in Michigan was 16,802 instead of 9,040, as returned. The line in Exhibit C, entitled "Deaths corrected as if enumerated in months of occurrence," exhibits the probable number of deaths in each month of the census year.

The enumeration of deaths was performed by the Census Marshals in the same manner as by the Supervisors. It is therefore assumed that the omissions were in about the same proportion.

In Exhibit E may be seen the deaths as returned by the Census Marshals, and the same as corrected upon the same principle as were the deaths returned by the Supervisors. The exhibit is printed here in order to bring together the evidence bearing upon the subject.

Digitized by Google

EXHIBIT C.—*By Months, the Number of Deaths in Michigan during the Census Year ending June 1, 1870, as returned by Registration Officers; the Number during last five Months of the Year, Corrected by Calculation for one Year longer time before Enumeration than elapsed before Enumeration of Deaths for first seven Months,—giving the Calculated Number that would have been returned had they been Enumerated in May, 1870, instead of May, 1871; the Number, for first seven Months of Census Year as returned by Registration Officers, Corrected by Calculation, and for last five Months re-corrected,—giving the Calculated Number of Deaths as if Enumerated in Months of Occurrence, as is made the case with May by the first Correction; also, the Number of Deaths, by Months, Equalized to a supposed Constant Population Equaling the Population at the close of the Year; and the Number of Deaths thus Estimated, Equalized to Months of uniform length of 30.44 days.*

	Total.	1869.							1870.				
		June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.
Deaths as returned by registration officers	.....	.....	.....	.....	.....	.....	.....	.....	421	558	724	678	699
Per cent. of deaths to be added for correction for one year additional time before enumeration	.....	.....	.....	.....	.....	.....	.....	.....	98.09	98.09	98.09	98.09	98.09
Deaths to be added for above correction	3,006	.....	.....	.....	.....	.....	.....	.....	413	542	710	665	676
Deaths, if enumerated in May, 1870, instead of May, 1871	.....	.....	.....	.....	.....	.....	.....	.....	834	1,095	1,434	1,343	1,365
Deaths as returned by registration officers	a 9,040	630	687	1,068	1,194	874	686	836	.....	.....	.....	.....	.....
Per cent. of deaths to be added for correction for time before enumeration	.....	89.92	81.75	73.58	65.41	57.24	49.07	40.90	32.73	24.56	16.39	8.22	.00
Number of deaths to be added for correction last mentioned	4,756	566	561	785	780	500	336	342	272	269	235	110	00

Digitized by Google

Deaths corrected as if enumerated in months of occurrence..	16,802	1,196	1,248	1,858	1,974	1,874	1,022	1,178	1,106	1,864	1,669	1,458	1,865
Per cent. of deaths to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year	385	50	48	65	62	39	25	25	19	19	18	10	5
Deaths as corrected, equalized to population at close of year.	17,187	1,246	1,296	1,918	2,036	1,413	1,047	1,203	1,125	1,383	1,687	1,468	1,370
Days and hundredths by which the months should be increased or diminished to equalize them to a uniform length	.....	+.44	-.56	-.56	+.44	-.56	+.44	-.56	-.56	+2.44	-.56	+.44	-.56
Number by which the deaths should be increased or diminished to equalized them to months of uniform length.....	+24	+18	-23	-35	+30	-25	+15	-22	-20	+120	-30	+21	-25
Deaths corrected and equalized to months of uniform length.	17,211	1,264	1,273	1,883	2,066	1,388	1,062	1,181	1,105	1,503	1,657	1,484	1,345

a Excluding 48 in unknown month.

Digitized by Google

EXHIBIT D.—*Exhibiting, by Months, and the Total Number for the Census Year ending June 1, 1870, the Deaths as returned by Registration Officers; the Number of Deaths for the last five Months of the Census Year, increased by an Estimated Correction for Omissions resulting from one year Additional time elapsing before Enumeration,—giving the Number as it would have been if Enumerated in May, 1870, instead of May, 1871; the Number of Deaths for the Census Year, increased by an Estimated Correction for Omissions resulting from the time elapsing before Enumeration,—giving the Number as it would have been if Enumerated in Months of Occurrence; the Deaths so Corrected, Equalized to a supposed uniform Population equaling that at close of year; and the Deaths thus Corrected and Equalized, Equalized to Months of uniform length.*

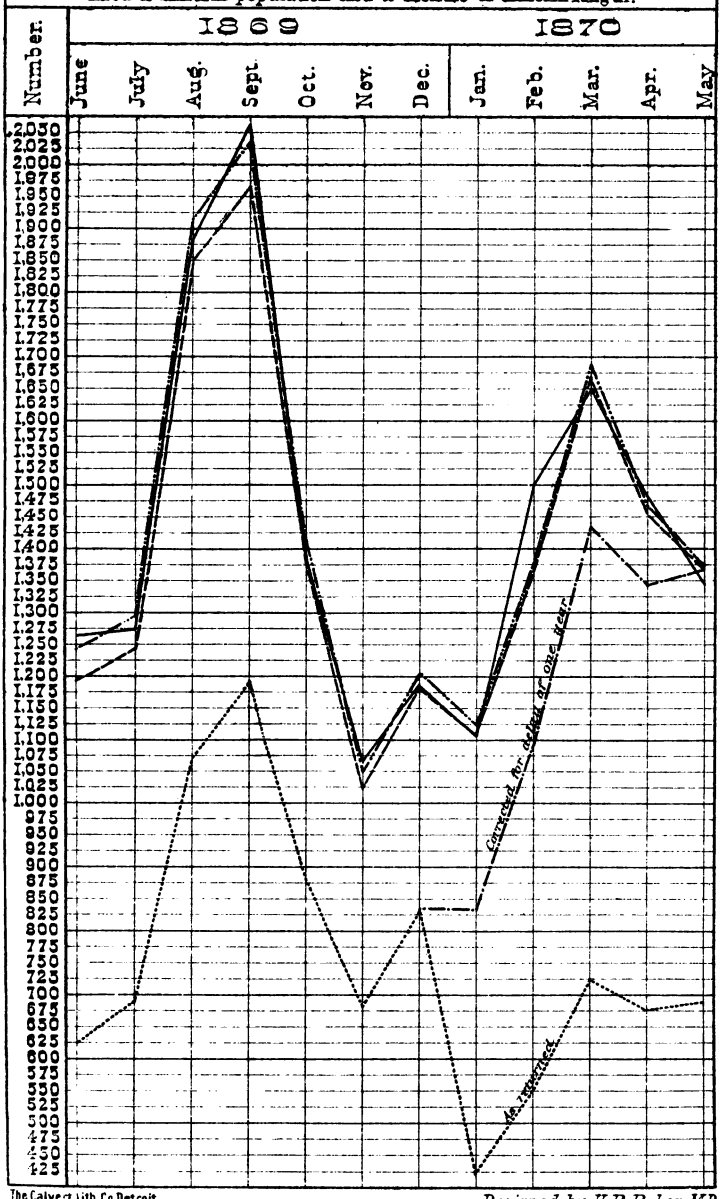
	Total.	1869.							1870.				
		June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.
Deaths as returned by registration officers	9,040	630	687	1,068	1,194	874	686	836	421	553	724	678	689
Deaths, if enumerated in May, 1870, instead of May, 1871	6,071	.....	.....	.....	.....	.....	.....	.....	834	1,595	1,484	1,343	1,365
Deaths corrected as if enumerated in months of occurrence	16,802	1,196	1,248	1,858	1,974	1,874	1,022	1,178	1,106	1,364	1,669	1,453	1,365
Deaths as corrected, equalized to population at close of year	17,187	1,246	1,296	1,918	2,086	1,413	1,047	1,208	1,125	1,383	1,687	1,463	1,370
Deaths corrected and equalized to months of uniform length	17,211	1,264	1,278	1,883	2,066	1,888	1,062	1,181	1,105	1,503	1,657	1,484	1,345

The five lines in Exhibit D are graphically represented in Diagram No. 3. The first and last lines of Exhibits D and E are illustrated in Diagram No. 4.

Digitized by Google

DIAGRAM No. 3.

Deaths in Michigan during year ending June 1, 1870 .....as returned.——.——as corrected for delay of one year.———corrected as if enumerated in months of occurrence.——.——equalized to uniform population,———as corrected and equalized to uniform population and to months of uniform length.



The Calvert Lith. Co. Detroit.

Designed by H. B. Baker, M.D.

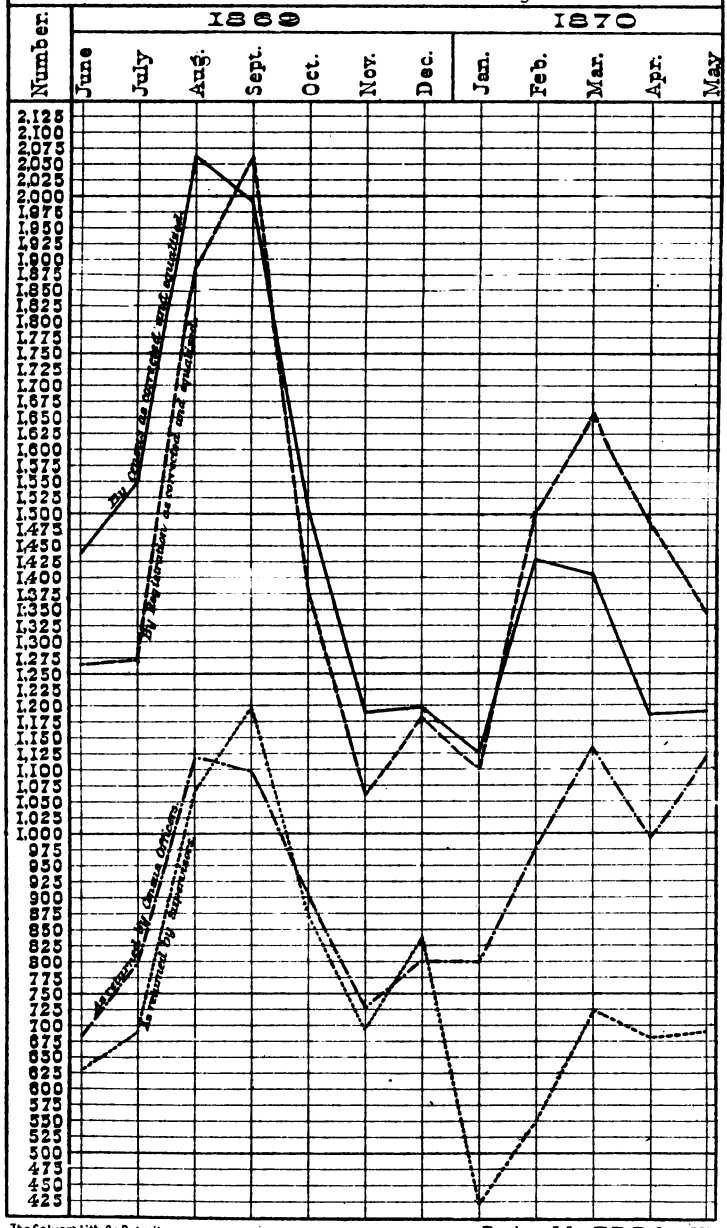
Digitized by Google

Digitized by Google

Digitized by Google

DIAGRAM No. 4.

Deaths in Michigan during year ending June 1, 1870 as returned by Census Marshals and by Registration Officers and as appears by each of these enumerations after being corrected for omissions and equalized to uniform population and to months of uniform length.



The Calvert Lith. Co. Detroit.

Designed by H. B. Baker, M.D.

Digitized by Google

EXHIBIT E.—*By Months, the Number of Deaths in Michigan during the Census Year ending June 1, 1870, as returned by Census Officers; the Number, corrected by calculation, for time elapsing before Enumeration,—giving the calculated Number that would have been returned had they been enumerated in Months of occurrence; the Number Equalized to a supposed constant Population equaling the Population at the close of the Year; and the Number of Deaths, thus estimated, equalized to Months of uniform Length of 30.44 Days.*

	Total.	1869.							1870.				
		June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.
Deaths, as returned by census officers, for census year	[a] 11,160	689	799	1,118	1,097	905	727	801	800	977	1,184	996	1,119
Per cent. of deaths to be added as a correction for time elapsing before enumeration	.....	98.09	89.92	81.75	73.53	65.41	57.24	49.07	40.90	32.73	24.56	16 39	8.22
Number of deaths to be added for above correction	5,695	674	718	914	807	592	416	393	327	320	279	163	92
Deaths if enumerated in months of occurrence	16,855	1,361	1,517	2,032	1,904	1,497	1,143	1,194	1,127	1,297	1,413	1,159	1,211
Per cent. of deaths to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year	[b] 407	57	59	71	60	42	28	25	20	18	15	8	4
Deaths, as corrected, equalized to population at close of year	17,262	1,418	1,576	2,103	1,964	1,539	1,171	1,219	1,147	1,315	1,428	1,167	1,215
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length	.....	+.44	-.56	-.56	+.44	-.56	+.44	-.56	-.56	+2.44	-.56	+.44	-.56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length	+18	+21	-28	-38	+29	-28	+17	-22	-21	+114	-26	+17	-22
Deaths corrected and equalized, equalized to months of uniform length	17,275	1,439	1,548	2,065	1,993	1,511	1,188	1,197	1,126	1,429	1,402	1,184	1,193

[a] Excluding 22 in unknown month.

[b] Estimated population in 1869 was 1,131,600; in 1870, by same estimate, it was 1,184,672. Assuming the increase of population to have been the same in every month of the year, the average population in which the deaths were collected was 1,158,186. Then 1,158,186 : 16,855 : : 1,184,672 : x, whence x equals 17,241 : x—16,855=386,—the number to be added to equalize to population June 1, 1870. The discrepancy between this and the result (407) is due to the fact that in this table the number of deaths in the months opposite which the greatest per cent. is placed chanced to be slightly larger than the average. It is as near as is practicable.

Digitized by Google

EXHIBIT F.—*Deaths in Michigan during the Year 1870 as Returned; as Corrected for Omissions in Enumerating, the same Equalized for Increase of Population during the Year covered by the Returns; and the Deaths as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also Indicating some of the steps by which these results have been reached.*

	Total.	Year 1870.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers	*10,731	421	553	724	678	689	754	1,084	1,473	1,338	1,132	933	927
Per cent. of deaths to be added for correction for time elapsing before enumeration	.....	130.79	122.62	114.45	106.27	98.09	89.92	81.75	73.58	65.40	57.22	49.04	40.87
Number of deaths to be added for above correction	8,479	551	678	829	721	676	678	886	1,084	891	648	458	379
Deaths if enumerated in months of occurrence	19,210	972	1,231	1,553	1,399	1,365	1,432	1,970	2,557	2,254	1,780	1,391	1,306
Per cent. of deaths to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year	414	41	48	55	44	38	35	42	45	32	19	10	5
Deaths, as corrected, equalized to population at close of year	19,624	1,013	1,279	1,608	1,443	1,403	1,467	2,012	2,602	2,286	1,799	1,401	1,311
Days and 100ths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length	-2	-18	+111	-29	+21	-25	+22	-36	-47	+34	-32	+21	-24
Deaths corrected and equalized, equalized to months of uniform length	19,622	995	1,390	1,579	1,464	1,378	1,489	1,976	2,555	2,320	1,767	1,422	1,287

* Deaths in unknown month excluded.

Digitized by Google

EXHIBIT F.—CONTINUED.—*Concerning Deaths of Males Only.*

	Total.	Year 1870.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers	[a] 5,575	225	322	372	329	348	388	578	761	708	594	488	477
Per cent. of deaths to be added for correction for time elapsing before enumeration	.....	104.30	97.78	91.26	84.74	78.22	71.70	65.18	58.66	52.14	45.62	39.10	32.58
Number of deaths to be added for above correction	3,518	235	315	339	279	272	275	373	446	369	271	189	155
Deaths if enumerated in months of occurrence	9,093	460	637	711	608	620	658	946	1,207	1,077	865	672	632
Per cent. of deaths to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year	193	19	25	25	19	17	16	20	21	15	9	5	2
Deaths, as corrected, equalized to population at close of year	9,286	479	662	736	627	637	674	966	1,228	1,092	874	677	634
Days and 100ths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the deaths should be increased or diminished to equalized them to months of uniform length	+2	-9	+57	-13	+9	-12	+10	-17	-22	+16	-16	+10	-11
Deaths corrected and equalized, equalized to months of uniform length	9,288	470	719	723	636	625	684	949	1,206	1,108	858	687	623

[a] Deaths in Unknown month excluded.

Digitized by Google

EXHIBIT F.—CONTINUED.—*Concerning Deaths of Females only.*

	Total.	Year 1870.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers	* 5,122	195	229	350	347	339	369	506	707	651	582	448	449
Per cent. of deaths to be added for correction for time elapsing before enumeration	.....	162.06	151.93	141.80	131.67	121.54	111.41	101.28	91.15	81.02	70.89	60.76	50.63
Number of deaths to be added for above correction	4,999	316	348	496	457	412	411	512	644	527	377	272	227
Deaths if enumerated in months of occurrence	10,121	511	577	846	804	751	780	1,018	1,351	1,178	909	720	676
Per cent. of deaths to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year	216	22	22	30	25	21	19	21	24	16	9	5	2
Deaths, as corrected, equalized to population at close of year	10,337	533	599	876	829	772	799	1,039	1,375	1,194	918	725	678
Days and 100ths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	.+44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length	-8	-10	+52	-16	+12	-14	+12	-19	-25	+18	-17	+11	-12
Deaths corrected and equalized, equalized to months of uniform length	10,329	523	651	860	841	758	811	1,020	1,350	1,212	901	736	666

* Deaths in unknown month excluded.

Digitized by Google

EXHIBIT G.—*Deaths in Michigan during the year 1871 as Returned; as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the year covered by the Returns; and the Deaths as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also Indicating some of the steps by which these results have been reached.*

	Total.	Year 1871.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers	* 9,671	529	578	781	721	750	626	788	1,088	1,055	988	798	1,029
Per cent. of deaths to be added for correction for time elapsing before enumeration	.....	100.06	98.80	87.55	81.30	75.04	68.79	62.54	56.28	50.03	43.78	37.52	31.27
Number of deaths to be added for above correction	5,994	529	542	684	586	563	431	493	609	528	408	299	322
Deaths if enumerated in months of occurrence	15,665	1,058	1,120	1,465	1,307	1,313	1,057	1,281	1,692	1,583	1,341	1,097	1,351
Per cent. of deaths to be added to equalize them to population at close of year	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year	349	45	43	51	41	37	26	27	30	22	14	8	5
Deaths, as corrected, equalized to population at close of year	16,014	1,103	1,163	1,516	1,348	1,350	1,083	1,308	1,722	1,605	1,355	1,105	1,356
Days and 100ths by which the months should be increased or diminished to equalize them to months of uniform length	.....	-.56	+2.44	-.56	+.44	-.56	+.44	-.56	-.56	+.44	-.56	+.44	-.56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length	+3	-20	+101	-27	+20	-24	+16	-24	-31	+24	-24	+16	-24
Deaths corrected and equalized, equalized to months of uniform length	16,017	1,083	1,264	1,489	1,368	1,326	1,099	1,284	1,691	1,629	1,331	1,121	1,332

* Deaths in unknown month excluded.

Digitized by Google

TABLE IV.—*Exhibiting, by Sex, and by Age in periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1871, also the Excess of Persons of each Sex.*

AGES IN YEARS AND PERIODS.	Excess of the Sexes by No.		Number of Deaths.[a]				Per Cent. of Deaths at Each Age to Total at All Ages.			Per Cent. of Each Sex to Total of Both Sexes.				Males to 100 Females.
												Excess.		
	Males.	Females.	Males.	Females.	Unknown.	Total.	Total.	Males.	Females.	Males.	Females.	Males.	Females.	
All ages	974	326	5,187	4,504	36	9,727	100.00	100.00	100.00	53.52	46.48	7.04	.....	115.17
Under 1	271	.....	1,235	964	28	2,227	22.90	23.81	2.14	56.16	43.84	12.32	.....	128.11
1 to 2	94	.....	402	308	.....	710	7.30	7.75	6.84	56.62	43.38	13.24	.....	130.52
2 to 3	4	.....	206	202	.....	408	4.19	3.97	4.48	50.49	49.51	.98	.....	101.98
3 to 4	.....	12	133	145	1	279	2.87	2.56	3.33	47.84	52.16	.....	4.32	91.72
4 to 5	23	.....	117	94	.....	211	2.17	2.26	2.09	55.45	44.55	10.90	.....	124.46
Under 5	380	.....	2,093	1,713	29	3,835	39.43	40.35	38.03	54.99	45.01	9.98	.....	122.18
5 to 10	.....	37	266	303	2	571	5.87	5.13	6.73	46.75	53.25	.....	6.50	87.78
10 to 15	.....	23	134	157	1	292	3.00	2.58	3.49	46.05	53.95	.....	7.90	85.35
15 to 20	.....	55	159	214	.....	373	3.83	3.07	4.75	42.63	57.37	.....	14.74	74.29
20 to 25	.....	58	219	277	.....	496	5.10	4.22	6.15	44.15	55.85	.....	11.70	79.06
25 to 30	.....	71	166	237	.....	403	4.14	3.20	5.26	41.19	58.81	.....	17.62	70.04
30 to 35	.....	35	161	196	.....	357	3.67	3.10	4.35	45.10	54.90	.....	9.80	82.14

Digitized by Google

35 to 40	.....	7	184	191	.....	375	3.86	3.55	4.24	49.07	50.93	.....	1.86	96.88
40 to 45	19	.....	166	147	.....	313	3.22	3.20	3.26	53.04	46.96	6.08	.....	112.92
45 to 50	71	.....	175	104	.....	279	2.87	3.37	2.31	62.72	37.28	25.44	.....	168.26
50 to 55	63	.....	168	105	1	274	2.82	3.24	2.33	61.54	38.46	23.08	.....	160.00
55 to 60	78	.....	199	121	.....	320	3.29	3.84	2.69	62.19	37.81	24.38	.....	164.46
60 to 65	61	.....	195	134	.....	329	3.38	3.76	2.98	59.27	40.73	18.54	.....	145.52
65 to 70	70	.....	202	132	.....	334	3.43	3.89	2.93	60.48	39.52	20.96	.....	153.03
70 to 75	63	.....	213	150	.....	363	3.73	4.11	3.33	58.68	41.32	17.36	.....	142.00
75 to 80	51	.....	166	115	.....	281	2.89	3.20	2.55	59.07	40.93	18.14	.....	144.34
80 to 85	30	.....	103	73	.....	176	1.81	1.99	1.62	58.52	41.48	17.04	.....	141.09
85 to 90	24	.....	50	26	.....	76	.78	.96	.02	65.79	34.21	31.58	.....	192.30
90 to 95	2	.....	22	20	.....	42	.43	.42	.44	52.38	47.62	4.76	.....	110.00
95 to 100	1	.....	6	5	.....	11	.11	.12	.11	54.55	45.45	9.10	.....	120.00
100 and over	.....	5	1	6	.....	7	.07	.02	.13	14.29	85.71	.....	71.42	16.66
Unknown ages	61	.....	139	78	3	220	2.26	2.68	1.78	64.06	35.94	28.12	.....	178.20

[a] In Tables IV., V., and VI. the total number of deaths is one different, and the numbers of each sex vary one or two from those stated in the other tables. These tables were made by another person, and in a few cases the sex was not definitely stated in the returns. An effort was made to make both series of tables exactly accurate, but this was the best result reached.

Digitized by Google

TABLE V.—*Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the year and in each Month of the year 1871.*

AGES IN YEARS.	SEX.	YEAR 1871.	MONTHS.												
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unkn'wn
All under 1	Total	2,227	107	141	187	159	189	128	224	309	264	226	142	199	7
	Males	1,235	65	78	104	87	77	67	124	168	148	120	91	109	2
	Females	964	41	61	80	72	61	54	99	142	114	102	49	87	2
	Unknown	28	1	2	3	.....	1	2	1	4	2	4	2	3	3
All under 5	Total	3,835	196	236	320	265	245	219	356	584	456	355	268	369	16
	Males	2,098	108	124	181	139	126	117	200	276	257	196	158	204	7
	Females	1,718	87	110	136	126	118	100	154	254	197	155	108	162	6
	Unknown	29	1	2	3	.....	1	2	2	4	2	4	2	3	3
5 to 10	Total	571	31	39	51	39	45	39	42	57	64	51	48	62	3
	Males	266	18	18	20	20	19	19	24	32	25	25	17	29	.....
	Females	303	13	21	30	19	26	20	17	25	39	26	31	33	3
	Unknown	2	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
10 to 15	Total	292	17	19	27	19	31	21	28	25	24	16	24	40	1
	Males	134	9	8	10	10	12	11	16	11	12	8	11	16	.....
	Females	157	8	11	17	9	18	10	12	14	12	8	13	24	1
	Unknown	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....

Digitized by Google

15 to 20	Total	373	16	23	35	37	34	30	37	27	32	27	27	46	2
	Males	159	6	9	18	13	13	10	20	9	16	15	13	17	.....
	Females	214	10	14	17	24	21	20	17	18	16	12	14	29	2
20 to 25	Total	496	26	18	37	46	44	39	39	49	48	44	49	54	3
	Males	219	12	7	16	20	12	15	16	20	23	24	25	27	2
	Females	277	14	11	21	26	32	24	23	29	25	20	24	27	1
25 to 30	Total	403	20	26	24	38	44	35	24	39	33	37	39	42	2
	Males	166	9	10	9	16	21	12	12	12	12	15	20	17	1
	Females	237	11	16	15	22	23	23	12	27	21	22	19	25	1
30 to 35	Total	357	20	23	26	20	26	29	21	31	39	44	31	43	4
	Males	161	10	10	15	7	9	17	9	14	15	18	14	22	1
	Females	196	10	13	11	13	17	12	12	17	24	26	17	21	3
35 to 40	Total	375	25	25	32	24	24	33	21	35	44	41	33	33	.....
	Males	184	11	10	19	11	9	18	11	18	23	18	20	16	.....
	Females	191	14	15	13	13	15	15	10	17	21	23	13	22	.....
40 to 45	Total	313	20	19	23	20	24	25	24	19	27	31	39	39	3
	Males	166	10	6	15	9	13	12	12	9	12	19	25	22	2
	Females	147	10	13	8	11	11	13	12	10	15	12	14	17	1
45 to 50	Total	279	17	14	25	22	24	12	23	27	23	30	21	39	2
	Males	175	11	8	17	14	13	7	17	19	14	13	12	29	1
	Females	104	6	6	8	8	11	5	6	8	9	17	9	10	1

Digitized by Google

TABLE V.—CONTINUED.—*Deaths by Periods of Age, by Sex, by Months.*

AGES IN YEARS.	SEX.	YEAR 1871.	MONTHS.												
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Un-kn'wn
50 to 55	Total	274	17	14	16	21	25	16	20	25	26	33	34	23	4
	Males	168	13	11	7	13	15	7	10	17	17	21	20	15	2
	Females	105	4	3	9	8	10	9	10	8	9	12	13	8	2
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
55 to 60	Total	320	12	23	23	33	24	20	17	30	33	34	31	33	2
	Males	199	8	12	14	22	17	13	7	17	18	25	21	24	1
	Females	121	4	11	9	11	7	7	10	13	15	9	10	14	1
60 to 65	Total	329	23	28	25	25	30	16	22	28	35	35	35	30	2
	Males	195	13	10	12	19	19	12	14	16	17	24	18	20	1
	Females	134	10	18	13	6	11	4	8	12	18	11	17	10	1
65 to 70	Total	334	28	19	30	21	30	14	26	32	33	35	29	42	.....
	Males	202	16	13	21	16	17	9	16	15	20	17	15	27	.....
	Females	132	7	6	9	5	13	5	10	17	13	18	14	15	.....
70 to 75	Total	363	22	16	25	22	20	22	30	34	49	40	31	51	1
	Males	213	13	8	15	11	11	13	21	25	27	19	19	26	.....
	Females	150	9	8	10	11	9	4			22	21	12	25	1

Digitized by Google

75 to 80	Total	281	12	17	20	29	20	19	21	40	34	27	17	25	.....
	Males	166	8	9	8	19	11	9	14	28	22	21	7	10	.....
	Females	115	4	8	12	10	9	10	7	12	12	6	10	15	.....
80 to 85	Total	176	9	6	15	13	16	14	11	19	23	13	14	21	2
	Males	103	2	1	9	6	12	10	8	11	13	8	7	16	.....
	Females	73	7	5	6	7	4	4	3	8	10	5	7	5	2
85 to 90	Total	76	4	7	7	6	4	5	6	7	7	12	6	5	.....
	Males	50	3	3	5	3	2	3	6	5	4	7	6	3	.....
	Females	26	1	4	2	3	2	2	.....	2	3	5	.....	2	.....
90 to 95	Total	42	5	2	4	3	5	4	3	3	4	1	4	4	.....
	Males	22	3	2	2	1	2	2	2	3	2	.....	1	2	.....
	Females	20	2	.....	2	2	3	2	1	.....	2	1	3	2	.....
95 to 100	Total	11	.....	.....	.....	1	2	1	2	3	.....	1	.....	1	.....
	Males	6	.....	.....	.....	1	2	.....	1	1	.....	.....	.....	1	.....
	Females	5	.....	.....	.....	.....	.....	1	1	2	.....	1	.....	.....	.....
100 and over	Total	7	2	.....	.....	1	.....	.....	1	2	1	.....	.....	.....	.....
	Males	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
	Females	6	2	.....	.....	1	.....	.....	1	2	.....	.....	.....	.....	.....
Unknown	Total	220	12	8	14	17	33	13	14	15	19	26	19	19	11
	Males	139	5	4	6	9	26	9	8	11	12	14	12	13	10
	Females	78	7	4	8	8	7	4	5	4	6	11	7	6	1
	Unknown	3	.....	.....	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....

Digitized by Google

TABLE VI.—*Exhibiting, by Sex and by Months, the Number Returned as having Died in Michigan during the Year 1871 at each and every Age, the Age stated in Twelfths of a Year for those under One, and in Years for those over One Year of Age.*

Ages in Years and Twelfths of a Year.	Sex.	Year 1871.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All Ages.	Total	9,727	529	577	779	722	750	626	788	1,081	1,054	988	799	1,081	58
	Males	5,187	288	288	419	379	381	330	444	569	562	507	441	556	28
	Females	4,504	240	292	356	343	367	294	340	508	489	421	355	472	27
	Unknown	36	1	2	4	.....	2	2	4	4	3	5	3	3	3
Under 1-12.	Total	924	45	59	78	75	68	60	72	98	72	110	78	106	8
	Males	521	31	34	44	38	38	32	38	51	38	65	53	58	1
	Females	384	14	24	31	37	29	27	34	44	32	44	23	45	.....
	Unknown	19	.....	1	3	.....	1	1	.....	3	2	1	2	3	2
1-12.	Total	210	13	17	18	13	6	13	21	23	37	26	7	15	1
	Males	121	8	8	13	11	5	8	11	13	17	11	5	10	1
	Females	88	5	9	5	2	1	5	10	10	20	14	2	5	.....
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....

Digitized by Google

2-12.	Total	145	10	10	15	15	7	9	19	21	15	6	8	10	.....
	Males	92	8	5	10	9	2	4	13	14	11	4	6	6	.....
	Females	51	1	5	5	6	5	5	5	7	4	2	2	4	.....
	Unknown	2	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
3-12.	Total	151	10	8	11	9	7	9	18	19	18	17	11	13	1
	Males	81	5	4	5	7	4	5	12	9	8	10	5	7	.....
	Females	67	5	3	6	2	3	4	6	9	10	6	6	6	1
	Unknown	3	.....	1	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....
4-12.	Total	121	8	8	10	8	8	3	17	19	18	9	7	11	.....
	Males	60	2	5	5	3	5	1	5	9	10	3	5	7	.....
	Females	59	1	3	5	5	3	1	12	10	8	5	2	4	.....
	Unknown	2	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....
5-12.	Total	117	2	6	12	3	5	6	11	22	21	12	7	10	.....
	Males	61	1	2	6	2	.....	5	6	9	15	5	4	6	.....
	Females	56	1	4	6	1	5	1	5	13	6	7	3	4	.....
6-12.	Total	131	6	8	11	7	10	4	21	21	24	7	3	8	1
	Males	71	1	5	5	2	9	2	14	13	13	2	2	3	.....
	Females	59	5	3	6	5	1	2	7	8	11	5	1	5	.....
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
7-12.	Total	82	4	6	5	5	6	5	9	14	15	5	3	5	.....
	Males	51	1	5	3	2	3	4	6	9	11	2	2	3	.....
	Females	31	3	1	2	3	3	1	3	5	4	3	1	2	.....

* Stillbirths included. See table of specified causes of death.

Digitized by Google

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years and Twelfths of a Year.	Sex.	Year 1871.	Months. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
8-12.	Total	96	6	6	9	8	8	2	11	16	14	7	6	8	.....
	Males	50	4	8	6	1	4	.....	4	9	6	5	8	5	.....
	Females	46	2	8	8	2	4	2	7	7	8	2	8	3	.....
9-12.	Total	98	1	4	7	6	6	5	10	21	18	12	7	6	.....
	Males	49	.....	1	4	6	2	2	7	6	8	9	8	1	.....
	Females	49	1	8	8	.....	4	8	8	15	5	8	4	5	.....
10-12.	Total	81	4	6	4	8	4	2	11	20	6	7	8	5	1
	Males	43	8	4	1	2	2	1	7	13	4	2	2	2	.....
	Females	38	1	2	8	6	2	1	4	7	2	5	1	8	1
11-12.	Total	71	8	8	7	7	4	5	4	15	11	8	2	2	.....
	Males	35	1	2	2	4	3	3	1	8	7	2	1	1	.....
	Females	36	2	1	5	3	1	2	3	7	4	6	1	1	.....
1.	Total	710	34	32	55	48	44	38	69	134	94	52	45	61	4
	Males	402	18	16	38	23	20	23	40	70	59	33	22	38	2
	Females	308	16	16	17	25	24	15	29	64	35	19	23	23	2

Digitized by Google

2.	Total	408	28	35	42	26	26	25	28	42	47	33	33	42	1
	Males	206	15	15	23	16	12	14	15	19	24	14	19	19	1
	Females	202	13	20	19	10	14	11	13	23	23	19	14	23	------
3.	Total	279	12	21	19	19	25	18	21	28	30	23	25	36	2
	Males	133	6	13	6	6	11	6	13	11	16	12	12	20	1
	Females	145	6	8	13	13	14	12	7	17	14	11	13	16	1
	Unknown	1	------	------	------	------	------	------	1	------	------	------	------	------	------
4.	Total	211	15	7	17	13	11	15	14	21	21	21	23	31	2
	Males	117	4	2	10	7	6	7	8	13	10	17	14	18	1
	Females	94	11	5	7	6	5	8	6	8	11	4	9	13	1
5.	Total	162	9	12	12	12	14	17	10	17	22	12	8	17	------
	Males	80	4	7	7	7	7	9	7	9	11	5	2	5	------
	Females	82	5	5	5	5	7	8	3	8	11	7	6	12	------
6.	Total	134	6	10	11	12	9	5	12	16	10	11	16	16	------
	Males	65	4	3	5	8	4	3	7	8	5	5	4	9	------
	Females	68	2	7	6	4	5	2	4	8	5	6	12	7	------
	Unknown	1	------	------	------	------	------	------	1	------	------	------	------	------	------
7.	Total	101	5	6	12	4	8	3	5	6	13	9	15	13	2
	Males	38	3	2	4	2	4	1	1	2	5	2	8	4	------
	Females	63	2	4	8	2	4	2	4	4	8	7	7	9	2

Digitized by Google

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year 1871.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
8.	Total	100	9	6	11	5	4	11	8	10	10	14	5	7	.....
	Males	52	6	4	2	2	2	6	4	7	2	10	2	5	.....
	Females	47	3	2	8	3	2	5	4	3	8	4	3	2	.....
	Unknown	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9.	Total	74	2	5	5	6	10	3	7	8	9	5	4	9	1
	Males	31	1	2	2	1	2	.....	5	6	2	3	1	6	.....
	Females	43	1	3	3	5	8	3	2	2	7	2	3	3	1
10.	Total	63	5	4	7	4	5	4	6	9	3	3	6	7	.....
	Males	28	2	2	1	3	2	1	4	3	1	1	4	4	.....
	Females	34	3	2	6	1	2	3	2	6	2	2	2	3	.....
	Unknown	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
11.	Total	65	4	7	4	1	10	3	6	6	10	1	3	10	.....
	Males	33	2	2	2	.....	4	2	4	3	10	.....	1	3	.....
	Females	32	2	5	2	1	6	1	2	3	.....	1	2	7	.....

Digitized by Google

12.	Total	51	.....	.....	6	3	6	6	7	5	4	5	2	7	.....
	Males	22	.....	.....	4	1	4	3	3	3	.....	2	.....	2	.....
	Females	29	.....	.....	2	2	2	3	4	2	4	3	2	5	.....
13.	Total	58	3	5	5	5	3	5	5	3	5	1	7	6	.....
	Males	21	2	3	2	2	.....	3	4	2	.....	.....	2	1	.....
	Females	32	1	2	3	3	3	2	1	1	5	1	5	5	.....
14.	Total	60	5	3	5	6	7	3	4	2	2	6	6	10	1
	Males	30	3	1	1	4	2	2	1	.....	1	5	4	6	.....
	Females	30	2	2	4	2	5	1	3	2	1	1	2	4	1
15.	Total	60	5	5	6	4	3	4	3	6	7	6	4	7	.....
	Males	23	3	1	4	.....	2	2	1	2	4	1	1	2	.....
	Females	37	2	4	2	4	1	2	2	4	3	5	3	5	.....
16.	Total	71	2	4	8	9	9	7	4	3	6	5	7	7	.....
	Males	34	1	3	3	3	5	4	.....	1	3	5	4	2	.....
	Females	37	1	1	5	6	4	3	4	2	3	.....	3	5	.....
17.	Total	82	5	5	5	6	7	9	9	12	9	2	4	8	1
	Males	31	1	2	3	3	.....	2	4	5	2	2	3	4	.....
	Females	51	4	3	2	3	7	7	5	7	7	.....	1	4	1
18.	Total	87	2	5	9	11	7	5	10	5	5	7	8	12	1
	Males	40	1	2	4	5	2	.....	8	1	4	3	5	5	.....
	Females	47	1	3	5	6	5	5	2	4	1	4	3	7	1

Digitized by Google

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year 1871.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
19.	Total	73	2	4	7	7	8	5	11	1	5	7	4	12	.....
	Males	31	.....	1	4	2	4	2	7	.....	3	4	.....	4	.....
	Females	42	2	3	3	5	4	3	4	1	2	3	4	8	.....
20.	Total	95	6	3	8	11	7	11	9	7	7	9	11	5	1
	Males	44	3	1	4	6	1	5	4	3	1	5	7	3	1
	Females	51	3	2	4	5	6	6	5	4	6	4	4	2	.....
21.	Total	87	4	3	6	4	8	4	7	12	4	8	12	13	2
	Males	41	2	1	.....	2	2	1	3	6	3	4	8	8	1
	Females	46	2	2	6	2	6	3	4	6	1	4	4	5	1
22.	Total	121	6	3	10	9	13	9	10	11	13	13	11	13	.....
	Males	47	1	1	5	5	2	4	4	4	9	5	3	4	.....
	Females	74	5	2	5	4	11	5	6	7	4	8	8	9	.....
23.	Total	100	7	6	6	12	8	6	7	13	12	8	6	9	.....
	Males	38	4	2	1	4	2	2	4	5	4	5	2	3	.....
	Females	62	2	4	5	8	6	4	3	8	8	3	4	6	.....

Digitized by Google

24.	Total	93	3	3	7	10	8	9	6	6	12	6	9	14	.....
	Males	49	2	2	6	3	5	3	1	2	6	5	5	9	.....
	Females	44	1	1	1	7	3	6	5	4	6	1	4	5	.....
25.	Total	70	2	5	4	4	9	6	6	6	8	2	6	9	1
	Males	35	1	.....	3	4	6	3	3	3	4	.....	3	4	1
	Females	35	1	5	1	.....	3	3	5	3	4	2	3	5	.....
26.	Total	88	5	6	5	15	12	5	5	7	3	8	10	7	.....
	Males	39	4	1	1	5	6	3	3	2	2	4	6	2	.....
	Females	49	1	5	4	10	6	2	2	5	1	4	4	5	.....
27.	Total	83	6	4	3	6	6	12	5	8	7	6	8	12	.....
	Males	39	3	4	2	3	3	3	3	4	1	3	6	4	.....
	Females	44	3	.....	1	3	3	9	2	4	6	3	2	8	.....
28.	Total	90	3	8	3	9	10	5	3	10	9	14	9	7	.....
	Males	31	.....	5	2	1	4	1	1	1	3	5	5	3	.....
	Females	59	3	3	1	8	6	4	2	9	6	9	4	4	.....
29.	Total	72	4	3	9	4	7	7	3	8	6	7	6	7	1
	Males	22	1	.....	1	3	2	2	2	2	2	3	.....	4	.....
	Females	50	3	3	8	1	5	5	1	6	4	4	6	3	1
30.	Total	93	6	8	5	4	7	5	5	6	16	12	8	9	2
	Males	38	3	2	4	3	2	3	2	3	5	3	5	3	.....
	Females	55	3	6	1	1	5	2	3	3	11	9	3	6	2

Digitized by Google

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year 1871.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
31.	Total	50	1	5	5	1	4	4	8	1	7	8	5	6	.....
	Males	22	.....	2	3	1	1	2	3	.....	2	4	1	3	.....
	Females	28	1	3	2	.....	3	2	.....	1	5	4	4	3	.....
32.	Total	92	5	6	5	8	8	9	7	7	8	13	6	10	.....
	Males	48	3	4	2	2	2	5	2	5	6	6	4	7	.....
	Females	44	2	2	3	6	6	4	5	2	2	7	2	3	.....
33.	Total	67	4	2	6	3	5	4	4	10	6	5	8	10	.....
	Males	23	3	1	1	1	3	2	2	2	1	1	1	5	.....
	Females	44	1	1	5	2	2	2	2	8	5	4	7	5	.....
34.	Total	55	4	2	5	4	2	7	2	7	2	6	4	8	2
	Males	30	1	1	5	.....	1	5	.....	4	1	4	3	4	1
	Females	25	3	1	.....	4	1	2	2	3	1	2	1	4	1
35.	Total	92	7	6	12	5	7	3	7	7	10	9	10	9	.....
	Males	46	4	3	7	4	1	1	4	2	4	5	5	6	.....
	Females	46	3	3	5	1	6	2	3	5	6	4	5	3	.....

Digitized by Google

36.	Total	79	3	7	6	7	3	6	4	6	12	9	1	15	.....
	Males	38	1	3	3	3	1	6	2	2	8	3	1	5	.....
	Females	41	2	4	3	4	2	.....	2	4	4	6	.....	10	.....
37.	Total	83	4	6	5	7	4	12	3	8	7	11	9	7	.....
	Males	43	3	2	2	3	3	8	.....	4	3	7	7	1	.....
	Females	40	1	4	3	4	1	4	3	4	4	4	2	6	.....
38.	Total	60	7	1	3	2	3	6	7	5	9	8	5	4	.....
	Males	30	2	.....	3	1	2	2	5	3	5	2	2	3	.....
	Females	30	5	1	.....	1	1	4	2	2	4	6	3	1	.....
39.	Total	61	4	5	6	3	7	6	.....	9	6	4	8	3	.....
	Males	27	1	2	4	.....	2	1	.....	7	3	1	5	1	.....
	Females	34	3	3	2	3	5	5	.....	2	3	3	3	2	.....
40.	Total	90	7	3	4	6	11	7	6	7	12	6	12	8	1
	Males	51	3	.....	4	2	10	2	3	4	6	6	6	4	1
	Females	39	4	3	.....	4	1	5	3	3	6	.....	6	4	.....
41.	Total	52	3	5	1	3	6	7	6	4	.....	4	8	4	1
	Males	22	2	2	1	1	2	3	4	1	.....	1	3	1	1
	Females	30	1	3	.....	2	4	4	2	3	.....	3	5		.....
42.	Total	71	3	4	11	4	4	4	1	5	8	5	7		.....
	Males	37	2	1	5	1	1	3	.....	3	3	3	6		.....
	Females	34	1	3	6	3	3	1	1	2	5	2	1		.....

Digitized by Google

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year 1871.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
43.	Total	44	4	1	2	1	2	3	6	2	1	10	9	3	.....
	Males	26	2	.....	2	1	.....	2	1	1	.....	7	8	2	.....
	Females	18	2	1	.....	.....	2	1	5	1	1	3	1	1	.....
44.	Total	56	3	6	5	6	1	4	5	1	6	6	3	9	1
	Males	30	1	3	3	4	.....	2	4	.....	3	2	2	6	.....
	Females	26	2	3	2	2	1	2	1	1	3	4	1	3	1
45.	Total	70	3	4	11	3	4	1	6	6	9	9	1	12	1
	Males	46	2	2	6	3	2	1	5	5	6	5	.....	8	1
	Females	24	1	2	5	.....	2	.....	1	1	3	4	1	4	.....
46.	Total	60	4	1	5	6	7	4	6	7	3	8	3	5	1
	Males	33	3	1	5	3	4	3	5	2	.....	2	1	4	.....
	Females	27	1	.....	.....	3	3	1	1	5	3	6	2	1	1
47.	Total	47	4	3	2	7	4	1	2	4	5	5	2	8	.....
	Males	27	2	2	.....	4	2	1	2	3	3	3	1	4	.....
	Females	20	2	1	2	3	2	.....	.....	1	2	2	1	4	.....

Digitized by Google

48.	Total	55	5	4	4	3	5	4	4	3	6	4	3	5	.....
	Males	38	3	3	4	2	3	2	2	3	5	.....	6	5	.....
	Females	17	2	1	.....	1	2	2	2	.....	1	4	2	.....	.....
49.	Total	47	1	2	3	3	4	2	5	7	.....	4	7	9	.....
	Males	31	1	.....	2	2	2	.....	3	6	.....	3	4	8	.....
	Females	16	.....	2	1	1	2	2	2	1	.....	1	3	1	.....
50.	Total	74	4	6	5	6	3	4	5	9	5	10	6	8	3
	Males	43	4	4	3	3	1	.....	2	5	3	6	2	8	2
	Females	31	.....	2	2	3	2	4	3	4	2	4	4	.....	1
51.	Total	36	5	1	4	2	4	1	2	.....	6	1	5	4	1
	Males	21	4	1	2	1	1	1	1	.....	3	1	4	2	.....
	Females	15	1	.....	2	1	3	.....	1	.....	3	.....	1	2	1
52.	Total	50	1	3	3	4	6	3	6	5	5	6	6	2	.....
	Males	30	.....	2	2	3	6	.....	2	4	2	5	2	2	.....
	Females	19	1	1	1	1	.....	3	4	1	3	1	3	.....	.....
	Unknown	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
53.	Total	62	5	3	.....	6	10	4	2	6	3	9	7	7	.....
	Males	40	4	3	.....	3	6	4	2	4	3	5	5	1	.....
	Females	22	1	.....	.....	3	4	.....	.....	2	.....	4	2	6	.....
54.	Total	52	2	1	4	3	2	4	5	5	7	7	10	2	.....
	Males	34	1	1	.....	3	1	2	3	4	6	4	7	2	.....
	Females	18	1	.....	4	.....	1	2	2	1	1	3	3	.....	.....

Digitized by Google

TABLE VI.— CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year 1871.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
55.	Total	75	5	7	9	8	4	4	3	6	7	7	7	7	1
	Males	46	3	2	7	3	4	3	2	4	2	7	5	4	.....
	Females	29	2	5	2	5	.....	1	1	2	5	.....	2	3	1
56.	Total	77	2	6	3	7	3	4	9	9	5	6	7	16	.....
	Males	50	2	4	1	6	3	2	4	7	2	3	5	11	.....
	Females	27	.....	2	2	1	.....	2	5	2	3	3	2	5	.....
57.	Total	44	3	3	3	5	5	7	1	4	3	3	3	3	1
	Males	26	1	2	.....	4	2	4	1	2	3	2	2	2	1
	Females	18	2	1	3	1	3	3	.....	2	.....	1	1	1	.....
58.	Total	55	1	3	3	2	6	4	2	5	3	9	7	5	.....
	Males	35	1	3	3	2	5	3	.....	2	6	4	4	2	.....
	Females	20	.....	.....	.....	.....	1	1	2	3	2	5	3	3	.....
59.	Total	69	1	4	5	11	6	1	2	6	10	9	7	7	.....
	Males	42	1	1	3	7	3	1	.....	2	5	9	5	5	.....
	Females	27	.....	3	2	4	3	.....	2	4	5	.....	2	2	.....

Digitized by Google

60.	Total	70	3	7	4	5	9	2	3	3	10	10	9	5	.....
	Males	39	1	4	2	4	6	2	1	1	6	6	4	2	.....
	Females	31	2	3	2	1	3	.....	2	2	4	4	5	3	.....
61.	Total	46	2	5	2	2	1	3	3	6	5	6	4	7	.....
	Males	27	2	3	.....	1	1	3	2	3	2	5	1	4	.....
	Females	19	.....	2	2	1	.....	.....	1	3	3	1	3	3	.....
62.	Total	68	8	5	7	5	7	5	4	3	5	6	7	5	1
	Males	39	5	1	2	4	4	3	3	3	3	3	4	3	1
	Females	29	3	4	5	1	3	2	1	.....	2	3	3	2	.....
63.	Total	71	4	1	6	4	7	2	7	9	6	7	8	9	1
	Males	42	1	1	4	2	4	1	5	3	1	6	5	9	.....
	Females	29	3	.....	2	2	3	1	2	6	5	1	3	.....	1
64.	Total	74	6	5	6	9	6	4	5	7	9	6	7	4	.....
	Males	48	4	1	4	8	4	3	3	6	5	4	4	2	.....
	Females	26	2	4	2	1	2	1	2	1	4	2	3	2	.....
65.	Total	88	8	7	7	4	12	6	3	6	13	5	6	11	.....
	Males	57	8	5	6	4	7	2	.....	2	8	3	5	7	.....
	Females	31	.....	2	1	.....	5	4	3	4	5	2	1	4	.....
66.	Total	67	1	5	7	6	8	2	2	5	4	11	6	10	.....
	Males	38	1	3	4	4	5	2	2	2	3	4	2	6	.....
	Females	29	.....	2	3	2	3	.....	.....	3	1	7	4	4	.....

Digitized by Google

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year 1871.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
67.	Total	63	3	1	4	.....	2	4	8	10	8	9	5	9	.....
	Males	32	1	1	2	.....	1	4	4	3	4	5	2	5	.....
	Females	31	2	.....	2	.....	1	.....	4	7	4	4	3	4	.....
68.	Total	72	8	3	6	6	3	1	8	9	7	6	7	8	.....
	Males	49	4	2	5	5	.....	1	6	7	5	3	4	7	.....
	Females	23	4	1	1	1	3	.....	2	2	2	3	3	1	.....
69.	Total	44	3	3	6	5	5	1	5	2	1	4	5	4	.....
	Males	26	2	2	4	3	4	.....	4	1	.....	2	2	2	.....
	Females	18	1	1	2	2	1	1	1	1	1	2	3	2	.....
70.	Total	69	7	3	6	4	3	5	5	7	7	8	5	9	.....
	Males	39	3	1	2	2	1	5	5	5	5	4	2	4	.....
	Females	30	4	2	4	2	2	.....	.....	2	2	4	3	5	.....
71.	Total	88	5	4	3	4	4	5	9	8	12	13	8	13	.....
	Males	49	4	3	1	3	1	2	5	6	5	5	7	7	.....
	Females	39	1	1	2	1	3	3	4	2	7	8	1	6	.....

Digitized by Google

72.	Total	80	4	5	4	4	6	6	7	7	11	9	8	9	.....
	Males	57	3	3	3	2	5	6	6	5	8	6	6	4	.....
	Females	23	1	2	1	2	1	.....	1	2	3	3	2	5	.....
73.	Total	72	3	1	8	8	6	3	4	4	13	6	4	12	.....
	Males	36	1	.....	7	3	4	3	2	2	5	2	2	5	.....
	Females	36	2	1	1	5	2	.....	2	2	8	4	2	7	.....
74.	Total	54	3	3	4	2	1	3	5	8	6	4	6	8	1
	Males	32	2	1	2	1	.....	2	3	7	4	2	2	6	.....
	Females	22	1	2	2	1	1	1	2	1	2	2	4	2	1
75.	Total	74	5	2	9	9	5	6	2	8	8	8	7	5	.....
	Males	41	2	1	3	5	3	4	1	5	5	7	4	1	.....
	Females	33	3	1	6	4	2	2	1	3	3	1	3	4	.....
76.	Total	66	7	8	4	6	4	4	4	7	5	3	5	4	.....
	Males	41	6	4	.....	4	2	2	3	6	5	6	1	2	.....
	Females	25	1	4	4	2	2	2	1	1	.....	2	4	2	.....
77.	Total	49	.....	5	3	2	3	2	5	6	11	3	2	7	.....
	Males	33	.....	3	2	2	2	1	5	3	7	3	1	4	.....
	Females	16	.....	2	1	.....	1	1	.....	3	4	.....	1	3	.....
78.	Total	57	.....	1	4	5	4	4	8	14	6	3	3	5	.....
	Males	33	.....	.....	3	3	1	2	4	11	3	3	1	2	.....
	Females	24	.....	1	1	2	3	2	4	3	3	.....	2	3	.....

Digitized by Google

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year 1871.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
79.	Total	35	.....	1	.....	7	4	3	2	5	4	5	.....	4	.....
	Males	18	.....	1	.....	5	3	.....	1	3	2	2	.....	1	.....
	Females	17	.....	.....	.....	2	1	3	1	2	2	3	.....	3	.....
80.	Total	38	2	.....	2	3	1	2	.....	6	7	4	7	4	.....
	Males	23	.....	.....	2	3	1	.....	.....	1	5	3	4	4	.....
	Females	15	2	.....	.....	.....	.....	2	.....	5	2	1	3	.....	.....
81.	Total	32	1	1	.....	1	3	3	4	5	5	1	.....	6	2
	Males	24	1	.....	.....	.....	3	3	4	5	2	1	.....	5	.....
	Females	8	.....	1	.....	1	.....	.....	.....	.....	3	.....	.....	1	2
82.	Total	40	4	1	6	5	6	5	2	1	3	2	2	3	.....
	Males	18	.....	.....	1	1	4	4	.....	.....	2	1	2	3	.....
	Females	22	4	1	5	4	2	1	2	1	1	1	.....	.....	.....
83.	Total	34	1	3	5	2	3	2	4	1	6	3	.....	4	.....
	Males	23	1	.....	4	2	3	2	3	1	3	1	.....	3	.....
	Females	11	.....	3	1	.....	.....	.....	1	.....	3	2	.....	1	.....

Digitized by Google

84.	Total	32	1	1	2	2	3	2	1	6	2	3	5	4	.....
	Males	15	.....	1	2	.....	1	1	1	4	1	2	1	1	.....
	Females	17	1	.....	.....	2	2	1	.....	2	1	1	4	3	.....
85.	Total	19	1	.....	.....	3	2	.....	3	3	2	3	2	.....	.....
	Males	13	1	.....	.....	2	.....	.....	3	1	1	3	2	.....	.....
	Females	6	.....	.....	.....	1	2	.....	.....	2	1	.....	.....	.....	.....
86.	Total	19	1	3	2	1	1	3	2	.....	.....	3	2	1	.....
	Males	15	1	3	2	.....	1	3	2	.....	.....	1	2	.....	.....
	Females	4	.....	.....	.....	1	.....	.....	.....	.....	.....	2	.....	1	.....
87.	Total	16	.....	2	3	2	1	.....	.....	2	3	2	1	.....	.....
	Males	11	.....	.....	3	1	1	.....	.....	2	2	1	1	.....	.....
	Females	5	.....	2	.....	1	.....	.....	.....	.....	1	1	.....	.....	.....
88.	Total	9	1	.....	1	.....	.....	.....	.....	.....	1	3	.....	3	.....
	Males	5	1	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....
	Females	4	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	1	.....
89.	Total	13	1	2	1	.....	.....	2	1	2	1	1	1	1	.....
	Males	6	.....	.....	.....	.....	.....	.....	1	2	1	.....	1	1	.....
	Females	7	1	2	1	.....	.....	2	.....	.....	.....	1	.....	.....	.....
90.	Total	10	.....	.....	1	.....	2	.....	1	2	1	1	1	1	.....
	Males	2	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
	Females	8	.....	.....	1	.....	2	.....	1	.....	1	1	1	1	.....

Digitized by Google

TABLE VI.—CONTINUED.—*Deaths by Ages, by Sex, by Months.*

Ages in Years.	Sex.	Year 1871.	Months.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
91.	Total	9	3	1	1	2	1	.....	.....	.....	.....	.....	1	.....	.....
	Males	5	2	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females	4	1	.....	.....	1	1	.....	.....	.....	.....	.....	1	.....	.....
92.	Total	7	.....	.....	1	.....	.....	1	.....	1	1	.....	2	1	.....
	Males	5	.....	.....	1	.....	.....	1	.....	1	.....	.....	1	1	.....
	Females	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
93.	Total	6	2	.....	1	.....	.....	1	1	.....	1	.....	.....	.....	.....
	Males	3	1	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....
	Females	3	1	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
94.	Total	10	.....	1	.....	1	2	2	1	.....	1	.....	.....	2	.....
	Males	7	.....	1	.....	.....	2	1	1	.....	1	.....	.....	1	.....
	Females	3	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1	.....
95.	Total	5	.....	.....	.....	1	1	1	.....	2	.....	.....	.....	.....	.....
	Males	3	.....	.....	.....	1	1	.....	.....	1	.....	.....	.....	.....	.....
	Females	2	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....

Digitized by Google

96.	Total	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....
	Males	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
	Females	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
97.	Total	2	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....
	Males	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
	Females	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
98.	Total	2	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....
	Males	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	Females	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
100.	Total	4	1	.....	.....	1	.....	.....	1	.....	1	.....	.....	.....	.....
	Males	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
	Females	3	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
103.	Total	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
	Females	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
104.	Total	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Females	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
106.	Total	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
	Females	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Unkn'wn	Total	220	12	8	14	17	33	13	14	15	19	26	19	19	11
	Males	139	5	4	6	9	26	9	8	11	12	14	12	13	10
	Females	78	7	4	8	8	7	4	5	4	6	11	7	6	1
	Unknown	3	.....	.....	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....

Digitized by Google

TABLE VII.—*A Life Table for Females, Constructed upon the basis of the Death-rate in Michigan during the year 1870, as Computed after Equalizing the Female Population Represented by Deaths, and Correcting the Deaths for Omissions because of time before Enumeration; Calculated upon the Assumed Number of 141,731 Females born; Showing, for each age from birth to 110, the Average Years of Life after each age,—the "Expectation of Life," so-called,—and the True Expectation of Life, at all ages, Computed by a method devised by the compiler.*[a]

Age in Years.	Female Population represented by Deaths in 1870, Equalized.[b]	Deaths of Females in 1870 multiplied by 1.58.[c]	Death-rate. No. of Deaths to 100 Living.[d]	Of 141,731 Born,		Average years of Life after each age.[e]	True Expectation of Life at each age, in years and 100ths.[f]
				No. living at beginning of each year of age.	No. Dying at each age.		
-1...	16,008	2,161.32	13.50	141,731	19,134	44.24	49.52
1...	15,829	757.02	4.78	122,597	5,860	50.07	58.14
2...	15,701	399.90	2.54	116,737	2,965	51.56	59.93
3...	15,491	291.41	1.88	113,772	2,139	51.89	59.91
4...	14,926	202.74	1.35	111,633	1,507	51.87	59.58
5...	14,600	172.98	1.18	110,126	1,299	51.58	59.03
6...	14,248	152.52	1.07	108,827	1,164	51.19	58.39
7...	14,016	104.16	.74	107,663	797	50.73	57.56
8...	13,934	93.00	.66	106,866	705	50.11	56.73
9...	13,801	91.14	.66	106,161	701	49.44	55.88
10...	13,610	61.38	.45	105,460	475	48.76	55.31
11...	13,475	65.10	.48	104,985	504	47.98	54.17
12...	13,327	70.68	.53	104,481	554	47.21	53.31
13...	13,150	83.70	.63	103,927	655	46.46	52.46
14...	12,950	72.54	.56	103,272	578	45.75	51.65
15...	12,672	111.60	.88	102,694	904	45.01	50.81
16...	11,839	89.28	.75	101,790	763	44.40	50.06
17...	11,564	109.74	.94	101,027	950	43.73	49.29

[a] For methods employed in the construction of this table, see remarks following.
[b] Equalized because in the census the age is stated approximately, and more than the true numbers appear at important ages, such as 20, 30, 40, 50, etc.
[c] Deaths increased because of evidence that only about 54 per cent. of the deaths were returned.
[d] Per cent. of deaths during the year 1870 to population June 1, 1870, or about the middle of the year in which the deaths occurred.
[e] So-called "Expectation of Life."
[f] For method of obtaining this column see remarks following. It is the Probable Duration of Life,—"Equation of Life," according to Neison.

Digitized by Google

TABLE VII.—Continued.—*Life Table for Females.*

Age in Years.	Female Population represented by Deaths in 1870, Equalized.	Deaths of Females in 1870 multiplied by 1.86.	Death-rate. No. of Deaths to 100 Living.	Of 141,731 Born, No. living at beginning of each year of age.	Of 141,731 Born, No. Dying at each age.	Average years of Life after each age.	True Expectation of Life at each age, in years and 100ths.
18...	11,287	98.58	.87	100,077	871	43.14	48.58
19...	11,094	130.20	1.17	99,206	1,161	42.52	47.84
20...	10,900	96.72	.88	98,045	863	42.02	47.16
21...	10,801	91.14	.84	97,182	816	41.38	46.38
22...	10,650	135.78	1.27	96,366	1,224	40.73	45.58
23...	10,525	85.56	.81	95,142	771	40.25	44.89
24 ..	10,295	115.32	1.12	94,371	1,057	39.57	44.08
25...	10,155	94.86	.93	93,314	868	39.02	43.32
26...	9,956	107.88	1.08	92,446	998	38.38	42.52
27...	9,647	107.88	1.11	91,448	1,015	37.79	41.75
28...	9,343	117.18	1.25	90,433	1,130	37.21	40.98
29...	8,889	79.98	.89	89,303	795	36.67	40.29
30...	8,424	96.72	1.14	88,508	1,009	36.00	39.51
31...	8,109	76.26	.94	87,499	822	35.41	38.78
32...	7,794	148.22	1.83	86,677	1,586	34.74	38.00
33...	7,479	63.24	.84	85,091	715	34.38	37.34
34...	7,215	83.70	1.16	84,376	979	33.66	36.50
35...	7,051	111.60	1.58	83,397	1,318	33.05	35.70
36...	6,948	63.24	.91	82,079	747	32.58	34.99
37...	6,845	78.12	1.14	81,332	927	31.87	34.16
38...	6,700	91.14	1.36	80,405	1,094	31.23	33.38
39...	6,589	68.82	1.05	79,311	833	30.66	32.64
40...	6,275	52.08	.82	78,478	644	29.98	31.83
41...	5,911	48.36	.81	77,834	630	29.22	30.99
42...	5,546	76.26	1.37	77,204	1,058	28.46	30.12
43...	5,181	59.52	1.14	76,146	863	27.84	29.35
44...	4,816	50.22	1.04	75,278	783	27.16	28.53
45...	4,632	52.08	1.12	74,495	834	26.44	27.70
46...	4,424	27.90	.63	73,661	464	25.73	26.88
47...	4,358	50.22	1.15	73,197	842	24.89	25.98
48...	4,292	63.24	1.47	72,355	1,064	24.18	25.15
49...	4,197	48.36	1.15	71,291	820	23.53	24.36

Digitized by Google

TABLE VII.—Continued.—*Life Table for Females.*

Age in Years.	Female Population represented by Deaths in 1870, Equalized.	Deaths of Females in 1870 Multiplied by 1.86.	Death-rate. No. of Deaths to 100 Living.	Of 141,781 Born,		Average years of Life after each age.	True Expectation of Life at each age, in years and 100ths.
				No. living at beginning of each year of age.	No. Dying at each age.		
50...	4,025	66.96	1.66	70,471	1,170	22.80	23.53
51...	3,881	35.34	.91	69,301	631	22.17	22.76
52...	3,570	52.08	1.45	68,670	996	21.37	21.89
53...	3,259	48.36	1.48	67,674	1,002	20.68	21.08
54...	2,948	39.06	1.32	66,672	880	19.98	20.26
55...	2,797	48.36	1.72	65,792	1,132	19.24	19.42
56...	2,386	52.08	2.05	64,660	1,326	18.57	18.62
57...	2,476	44.64	1.80	63,334	1,140	17.95	17.85
58...	2,416	29.76	1.23	62,194	765	17.27	17.07
59...	2,356	35.34	1.50	61,429	921	16.48	16.22
60...	2,302	46.50	2.01	60,508	1,216	15.72	15.41
61...	2,216	37.20	1.67	59,292	990	15.04	14.67
62...	2,090	55.80	2.66	58,302	1,551	14.28	13.87
63...	1,964	55.80	2.84	56,751	1,612	13.66	13.15
64...	1,838	78.12	4.25	55,139	2,343	13.04	12.42
65...	1,584	53.94	3.40	52,796	1,795	12.60	11.80
66...	1,421	46.50	3.27	51,001	1,668	12.03	11.12
67...	1,298	52.08	4.01	49,333	1,978	11.42	10.46
68...	1,175	53.94	4.59	47,355	2,174	10.87	9.86
69...	1,052	42.78	4.06	45,181	1,834	10.37	9.26
70...	964	52.08	5.40	43,347	2,341	9.79	8.59
71...	898	46.50	5.17	41,006	2,120	9.32	8.00
72...	832	50.22	6.03	38,886	2,345	8.80	7.44
73...	766	52.08	6.79	36,541	2,481	8.33	6.92
74...	700	57.66	8.23	34,060	2,803	7.90	6.47
75...	600	46.50	7.75	31,257	2,422	7.57	6.11
76...	518	53.94	10.51	28,835	3,031	7.16	5.71
77...	426	40.92	9.60	25,804	2,477	6.94	5.51
78...	339	40.92	12.07	23,327	2,816	6.63	5.20
79...	252	33.48	11.83	20,511	2,426	6.47	5.06
80...	235	27.90	12.31	18,085	2,226	6.27	4.89
81...	217	20.46	12.79	15,859	2,028	6.08	4.72

Digitized by Google

TABLE VII.—CONTINUED.—*Life Table for Females.*

Age in Years.	Female Population represented by Deaths in 1870, Equalized.	Deaths of Females in 1870 multiplied by 1.86.	Death-rate. No. of Deaths to 100 Living.	Of 141,731 Born, No. living at beginning of each year of age.	Of 141,731 Born, No. Dying at each age.	Average years of Life after each age.	True Expectation of Life at each age, in years and 100ths.
82...	200	39.06	13.27	13,831	1,835	5.89	4.57
83...	183	18.60	13.75	11,996	1,649	5.72	4.42
84...	165	27.90	14.23	10,347	1,472	5.55	4.26
85...	112	14.88	14.71	8,875	1,306	5.39	4.13
86...	91	13.02	15.19	7,569	1,150	5.24	4.00
87...	71	20.46	15.67	6,419	1,006	5.09	3.89
88...	51	9.30	16.15	5,413	874	4.94	3.77
89...	31	3.72	16.63	4,539	755	4.79	3.65
90...	27	11.16	17.16	3,784	649	4.65	3.54
91...	23	1.86	17.75	3,135	556	4.51	3.42
92...	18	3.72	18.34	2,579	473	4.37	3.31
93...	14	3.72	18.93	2,106	399	4.24	3.20
94...	10	.....	19.52	1,707	333	4.12	3.09
95...	10	.....	20.11	1,374	276	3.99	2.99
96...	9	.....	20.70	1,098	227	3.87	2.91
97...	8	.....	21.29	871	185	3.75	2.84
98...	7	.....	21.88	686	150	3.63	2.76
99...	7	3.72	22.47	536	120	3.50	2.68
100..	12	9.30	23.06	416	96	3.37	2.61
101..	1	.....	23.65	320	76	3.23	2.54
102..	1	.....	24.24	244	59	3.08	2.49
103..	.....	.....	24.83	185	46	2.90	2.43
104..	.....	.....	25.42	139	35	2.69	2.38
105..	2	.....	26.01	104	27	2.43	2.33
106..	.....	.....	26.60	77	20	2.11	2.16
107..	.....	.....	27.19	57	15	1.67	1.61
108..	1	.....	51.46	42	22	1.09	.95
109..	.....	.....	75.73	20	15	.75	.67
110..	.....	.....	100.00	5	5	.50	.50
Unk.	148	174.84	.....	.....	.....	.....	.....
All ages.	552,562	9,608.15	1.74	6,341,543	141,731	.....	.....

Digitized by Google

In the last Report the compiler published a "Life Table for Males," based upon the census of 1870 and the death-rate as indicated by the deaths returned by the supervisors for the year 1870. At that time there was no known method of correctly estimating the real death-rate from the number of deaths returned. It was known that many deaths were not reported, but what proportion were omitted was a matter of conjecture. Acting upon the belief that it was better to publish the evidence, so far as it was at hand, in order that deficiencies might be better understood and remedied, the Life Table above referred to was published. After that time the compiler discovered a method whereby an important correction could be made to the deaths returned, and another "Life Table for Males" was constructed from the same material after it had been corrected for omissions in the returns. That table was published in the Introduction to the "Statistics of Michigan, 1870," page xcii.—Table 8.

The "Life Table for Females" in this Report is constructed from material collected at the same time and in the same manner as that employed for the "Life Table for Males," and the material has been corrected upon the same principle as it was for the last table for males, which was published in the general Statistics of the State. This table for females should not therefore be compared with the table for males in the last Report on Vital Statistics, but with Table 8 in the introduction to the "Statistics of Michigan, 1870."

In computing this "Life Table for Females," the female population represented by deaths in 1870 was equalized and the deaths of females at each age during the year 1870 as per registration returns were multiplied by 1.86, that being such a fraction as would increase them in the same proportion as the deaths during the census year by registration returns were increased by the correction to make them as if enumerated in months of occurrence. The number of deaths returned by registration officers for the census year ending June 1st, 1870, was 9,040, and the

Digitized by Google

number of deaths, after being corrected for omissions because of time before enumeration, is 16,802; as shown by Table 10. The fraction employed in increasing the number of deaths was obtained as follows: 16,802÷9,040=1,858+, which we call 1.86. This is the ratio between the number of deaths as it would have been had the enumeration been made in months of occurrence and the number as returned. In constructing this table, it is assumed that the omissions resulting from time elapsing before enumeration were the same for females as for the total of both sexes. The death-rate is computed at each age up to that of 79 by per cent. of deaths as increased, to the population as equalized. The death-rate for ages over 79 being so irregular because of the small number of inhabitants at such ages, it was equalized as follows: The death-rate for the period of age from 79 to 89 inclusive was first computed, then equalized, forming an increasing death-rate from age 78 to age 90 averaging the death-rate for the period. From 90 to 107 inclusive the average death-rate was obtained and placed opposite the medium age; the death-rate for each age to 107 inclusive was then formed by using the average annual increase as a common difference between each two successive ages. Although this death-rate is thus equalized, it averages the same as the death-rate computed. At age 107 we find the death-rate by this method is 27.19 per cent. of the female population. There is one woman returned as living at the age of 108, and during the year 1870 there was no return of a woman having died at that or any older age. The age of the oldest woman heretofore returned as having died in Michigan was 110 years. It is therefore assumed that all women die at or before the age of 110, hence the death-rate at that age will be 100.00 per cent. The death-rate for the ages 108 and 109 is graduated between that at 107 and 110.

By equalizing the death-rate as has been done for all ages over 79, any natural irregularities would be likely to be obliterated; but the result is much nearer the truth than the

Digitized by Google

exceedingly irregular death-rate necessarily shown among the small number of inhabitants at such older ages, as is proven by the fact that if not equalized it will happen that the only person living at a given age will be found to have died, making the death-rate 100 per cent., while there are several persons living at ages older than that of the one who died. If the death-rate was not equalized, the Life Table must cease at the first age where all living at that age die, thus perhaps leaving out very many who have lived past that age and are still living at older ages.

If we can believe the statements in the U. S. Census returns, there were thirty-three persons aged 100 and over living in Michigan June 1st, 1870. The evidence of the age of these persons is the same as the evidence of the age of most others; but, without doubt, extraordinary evidence should be required, for the reason that the statements are extraordinary. It is therefore possible that this Life Table extends to ages which are to a slight extent fictitious, but it is in accordance with the evidence thus far obtained, and, like all questions of accurate research, is subject to future modification or verification.

The number 141,731 persons born was assumed as the basis of the "Life Table for Males" in the "Statistics of Michigan, 1870," for the reason that this number left just 100,000 living at the age of ten years, and the table could therefore be readily compared with the American Experience Table, which is a standard, for certain purposes, in the insurance laws of this State. This number has been assumed for this table in order to facilitate comparisons with the "Life Table for Males."

Given the first, fifth, and sixth columns in these tables, the last two are computed as follows: The "Average Years of Life after each age" was found *by dividing the aggregate time lived by all after a given age by the number living at that age.* The True Expectation of life was obtained by the following method: *Ascertain the age at which one-half the number living at the given age will have died, and subtract the given age.*

Digitized by Google

Digitized by Google

TABLE VIII.—*Exhibiting by Sex, the Number of Children under One*
Distinguishing the months in which they Died, their age i
whether Born in the Year of

Months in which Births & Deaths Occurred.	Number Born in each Month of Year of Death.				Number of Children that Di								
					Age in Months.								
	Year.	Totals.	Sex.	Number of each Sex.	-1.	1.	2.	3.	4.	5.	6.	7.	
January	1871.	168	Males	106	32	8	7	5	2	1	1	1	
			Females	62	15	4	1	5	1	1	5	3	
February		168	Males	99	34	8	5	4	5	2	5	5	
			Females	64	22	10	5	3	3	4	4	1	
March		184	Males	95	44	12	8	5	5	6	5	3	
			Females	89	31	5	5	6	5	6	6	1	
April		167	Males	93	38	11	9	7	3	2	2	2	
			Females	74	36	2	6	2	5	1	5	3	
May		155	Males	87	37	6	2	5	4	--	9	3	
			Females	68	29	1	5	3	3	5	1	4	
June		141	Males	78	33	8	5	3	1	5	2	4	
			Females	63	26	6	5	5	1	1	2	1	
July		144	Males	83	37	12	12	12	6	6	14	6	
			Females	61	35	7	5	6	12	5	7	3	
August		158	Males	84	51	13	14	10	9	9	13	9	
			Females	74	43	11	7	9	10	13	8	5	
September		118	Males	63	39	17	11	8	10	14	13	11	
			Females	55	32	20	4	10	8	7	11	4	
October		125	Males	76	63	10	4	10	4	5	2	2	
			Females	49	44	15	2	5	5	7	5	3	
November		93	Males	65	54	6	6	5	6	4	2	2	
			Females	28	23	1	2	6	2	3	1	1	
December		102	Males	60	60	11	7	3	7	6	3	3	
			Females	42	42	5	4	6	3	4	5	3	
Deaths by Ages. Of those Born in Year of Death.	1871.		Males	989	522	114	78	68	47	49	47	27	
			Females	729	378	83	45	52	44	40	37	16	
		1,718	Totals	1,718	900	197	123	120	91	89	84	43	
Of those Born in Previous year.	1870.		Males	----	--	8	12	14	15	11	24	24	
			Females	----	--	4	6	14	14	17	23	16	
		478	Totals	----	--	12	18	28	29	28	47	40	
All Ages under one year.	.....		Males	----	522	122	90	82	62	60	71	51	
			Females	----	378	87	51	66	58	57	60	32	
		2,196	Totals	----	900	209	141	148	120	117	131	83	

* Excluding 2 males and 2 females, month of death unknown; 8 persons, month of

Digitized by Google

of Age Returned as having Died in Michigan during the Year 1871; nths at Death, the months in which they were Born, and h or in the Previous Year.[a]

Each			Number Born in Each Month of Year Previous to one of Death.			Deaths by Months.							
						Of those Born in Year of Death.			Of those Born in Previous Year.		All Aged Under one Year.	
9.	10.	11.	Number of each Sex.	Totals.	Year.	Sex.	Totals.		Sex.	Totals.	Sex.	Totals.
--	3	1	----	----	1870.	32	47	1871.	33	59	65	106
1	1	2	----			15			26		41	
1	4	2	1	3		42	74		36	65	78	139
8	2	1	2			32			29		61	
4	1	2	5	7		64	105		36	74	100	179
3	3	5	2			41			38		79	
6	2	4	6	14		65	111		22	47	87	158
--	6	3	8			46			25		71	
2	2	3	10	21		54	95		24	45	78	140
4	2	1	11			41			21		62	
2	1	3	13	29		55	99		12	28	67	122
3	1	2	16			44			11		55	
7	7	1	22	35		99	176		25	46	124	222
4	4	3	13			77			21		98	
6	13	8	14	30		128	234		36	73	164	307
15	8	7	16			106			37		143	
7	5	7	33	65		129	233		19	30	148	263
5	2	4	32			104			11		115	
9	2	2	43	89		113	204		4	14	117	218
3	5	5	41			91			10		101	
3	2	1	43	89		94	141		1	2	95	143
4	1	1	41			47			1		48	
1	1	2	48	96		114	199		----	----	114	199
4	4	2	49			85			----		85	
13	3	2	----	----	------	989						
11	5	2	----	----	------	729						
24	8	4	----	----	------	----	1,718					
35	40	34	248	----	------	----	----		248			
38	34	34	230	----	------	----	----		230			
78	74	68	----	478	------	----	----		------	478		
48	43	36	----	----	------	----	----		------	----	1,237	
49	39	36	----	----	------	----	----		------	----	959	
97	82	72	----	----	------	----	----		------	----	----	2,196

eath and sex unknown; and 18 deaths of persons of unknown sex,—25 in all.

Digitized by Google

Digitized by Google

Table VIII. enables us to study more closely than heretofore the deaths of children under one year of age, an important matter for the reason that many of these deaths are believed to result from causes which may eventually be removed or modified. Of the 9,728 deaths returned, 2,196, or 22.57 per cent., are included in this table of deaths of children under one year of age. The table is planned after one in the "Statistics of Michigan, 1870," the principle upon which it is based having been devised by Mr. R. B. Callahan, of the State Department. Although somewhat complicated in its construction, it is believed that its statements may be easily understood, as may also, by means of the following explanations, the methods by which the statements have been reached:

The deaths were all returned as having occurred during the year 1871. The heavy angling line running diagonally through the table separates the deaths of children born within the year 1871 from the deaths of those born in the calendar year previous. The diagonal lines of figures separated from others by light and by dotted angling lines at the left of, and parallel to, the heavy diagonal line, exhibit, by months, those who were born within the year 1871; the first angling line of figures at the left of the heavy line being for the month of January, the second for February, etc. The footings of these lines of figures are written at the left of the central part of the table opposite the months in which the children were born.

The diagonal lines of figures separated by light and by dotted angling lines on the right of, and parallel to, the heavy line, exhibit, by months, those who were born during the calendar year previous to the one in which the deaths occurred, being the year ending December 31, 1870; the first line of figures representing those born in December, the second those born in November, etc. The footings of these figures are found on the right of the center of the table opposite the months in which the children were born.

Digitized by Google

The perpendicular columns of figures exhibit the deaths at each age in months.

The horizontal lines of figures across the table exhibit the deaths by months.

The footings for columns representing deaths by ages, of those born in each year, and for the total deaths of those aged under one year, are written at the bottom of the table.

The footings for lines of figures representing deaths, by months, of those born in each year, and the total of deaths of those aged under one year, are shown at the right of the table.

Digitized by Google

TABLE IX.—*Deaths in Michigan, during the Year 1871, of those Aged One Hundred Years and Over, exhibiting all the details concerning them included in the returns.*

NAME.	Sex.	Color.	Married, Single, or Widowed	Birthplace.	Age.			Occupation.	Place of Death.		Date of Death.		Cause of Death.
					Yrs	Mos.	Days		Town.	County.	Month.	Day.	
Jane Sabastian	Female	Red	Widow	Huds'n Bay	104	a	a	Not stated	Sugar Island	Chippewa	January	2	Old age.
Osquaacoquar	Female	Red	Widow	Unknown	100	a	a	Not stated	Sugar Island	Chippewa	July	19	Old age.
Phebe Myers	Female	White	Widow	New York	108	8	2	Not stated	Reading	Hillsdale	August	31	Old age.
Maria Mell	Female	White	Widow	Penn	100	4	a	Not stated	Algoma	Kent	April	26	Old age.
Aish-ke-bah-gosh	Male	Indian	Married	Unknown	100	a	a	Not stated	Elbridge	Oceana	September	20	Unk'n.
Cather'e McGowan	Female	White	Widow	Ireland	106	a	a	Not stated	Port Huron	St. Clair	August	4	Old age.
Sarah Hall	Female	White	Widow	England	100	5	a	None	Detroit	Wayne	January	9	Old age.

[a] Not stated.

Digitized by Google

EXHIBIT H.—*Counties and Townships from which no Returns of Deaths for 1871 were received by this Department.*

COUNTIES.	TOWNSHIPS.	Population June 1, 1870.
Total		40,889
Alcona	Alcona	146
Allegan	Clyde	298
	Manlius *a*	541
Bay	Bangor *a*	8,606
Benzie	Benzonia *b*	214
	Colfax *b*	71
	Inland *b*	204
	Platte *b*	181
	Welden *b*	74
Cass	La Grange *a*	1,885
Charlevoix	Norwood *a*	192
Clare	Surrey *a*	*c*
	Winterfield *a*	*c*
Delta	Masonville	152
	Nahma	*c*
	Winona	*c*
Grand Traverse	Mayfield	250
Houghton	Hancock *a*	2,701
	Portage *a*	1,541
Huron	Bingham *a*	441
	Colfax *a*	91
	Meade *a*	212
	Verona *a*	276
	White Rock *a*	270
Ionia	Otisco *a*	1,570
Iosco	Tawas *a*	1,881

a County Clerk says there is no report from the Supervisor.
b County Clerk says he cannot find any files of returns of deaths from these townships, and hence thinks there were none made; but they may have been stolen from his office with other papers that he knows were stolen.
c Organized since census was taken.

Digitized by Google

EXHIBIT H.—CONTINUED.

COUNTIES.	TOWNSHIPS.	Population June 1, 1870.
Isabella	Lincoln *a*	672
	Sherman *a*	184
Kalkaska	Springfield *a*	*b*
Keweenaw	All townships	4,206
Leelanaw	Solon	*b*
Mackinac	All townships	1,715
Manistee	Morilla *a*	129
	Springdale *a*	*b*
Manitou	Chandler	190
	Galilee	203
Mason	Branch	*b*
	Hamlin *a*	124
	Pere Marquette *a*	955
Mecosta	Mecosta *a*	263
Menominee	Menominee *a*	1,597
	Ingallston	*b*
Midland	Grout *a*	*b*
	Jasper *a*	139
	Lincoln *a*	822
	Mount Hayley	*b*
	Porter *a*	82
Montcalm	Ferris *a*	494
	Richland	88
Muskegon	Eggleston *a*	283
Newaygo	Beaver *a*	142
	Big Prairie *a*	492
	Bridgeton *a*	897
	Denver *a*	777
	Everett *a*	231
	Norwich	*b*
	Sheridan *a*	457
Oceana	Newfield *a*	265

a County Clerk says there is no report from the Supervisor.
b Organized since census was taken.

Digitized by Google

EXHIBIT H.—CONTINUED.

COUNTIES.	TOWNSHIPS.	Population June 1, 1870.
Osceola	Burdell *a*	*b*
	Middle Branch *a*	49
	Rose Lake *a*	*b*
Ottawa	Allendale *a*	799
Saginaw	St. Charles	1,185
Sanilac	Argyle	151
	Buel	216
	Delaware	741
	Elmer	*b*
	Flynn	131
	Lamotte	94
	Moore	113
	Sanilac	1,988
	Washington	870
	Watertown	49
Schoolcraft	All Townships	799
Tuscola	Ellington *a*	452
	Millington *a*	613
	Novesta *a*	105
Washtenaw	Lyndon	828
Wayne	Monguagon	1,475
Wexford	Colfax *a*	172
	Henderson *a*	*b*
	Selma *a*	*b*

a County Clerk says no returns were made by Supervisor.
b Organized since census was taken.

Digitized by Google

EXHIBIT I.—*Counties and Townships in which it is Reported that no Deaths Occurred in 1871.*

COUNTIES.	TOWNSHIPS.	Population June 1, 1870.
Total		6,283
Allegan	Lee	249
Antrim	Elk Rapids	870
	Mancelona	*a*
	Forest Home	*a*
Bay	Au Gres	255
Cheboygan	Duncan	831
Gratiot	Emerson	590
	Washington	551
Lake	Killbuck	*a*
	Lake	*a*
	Pinora	*a*
	Pleasant Plains	*a*
Lapeer	Arcada	418
	Branch	*a*
Marquette	Forsyth	*a*
Mason	Sherman	152
	Victory	314
Missaukee	All Townships	130
Montcalm	Belvidere	54
Ontonagon	Algonquin	54
	Carp Lake	25
Saginaw	Albee	197
	Chesaning?	1,507
Tuscola	Columbia	424
Wexford	Hanover	112

a Organized since census was taken.

It seems wrong to doubt the certified return of a Supervisor, but it is difficult to believe that no deaths occurred during the year 1871 in a township like Chesaning, containing 1,507 inhabitants in 1870.

Digitized by Google

TABLE X.—*Exhibiting, for the State and Counties, by Sex, the Number of Deaths returned as having occurred in Michigan during the Year 1871, and in each Month of the Year; also the Number of Deaths at each period of Age.*

STATE. AND COUNTIES.	SEX.	Year 1871.	MONTHS. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	AGES. Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
State*	Totals	9728	529	578	781	721	750	626	788	1083	1055	933	798	1029	57	3848	575	284	374	896	733	592	594	664	644	311	218
	Males	5190	290	283	418	379	379	329	442	572	562	507	444	557	28	2097	269	134	159	335	344	340	370	396	376	181	139
	Females	4503	238	293	359	342	369	295	342	507	490	421	352	469	26	1717	304	149	215	511	389	252	224	268	268	130	76
	Unknown	35	1	2	4	----	2	2	4	4	3	5	2	3	3	29	2	1	----	----	----	----	----	----	----	----	3
Alcona	Totals	5	----	----	----	----	----	----	----	1	2	----	----	1	1	3	----	----	----	----	----	----	----	1	----	----	1
	Males	4	----	----	----	----	----	----	----	----	2	----	----	1	1	2	----	----	----	----	----	----	----	1	----	----	1
	Females	1	----	----	----	----	----	----	----	1	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----
Allegan	Totals	278	11	12	19	22	21	15	17	33	43	38	26	21	----	125	14	11	6	24	16	18	27	13	14	5	5
	Males	143	6	5	12	12	13	5	10	17	21	17	16	9	----	69	5	3	4	13	5	7	17	8	8	1	3
	Females	132	5	7	7	10	8	10	5	16	22	21	10	11	----	54	8	8	2	11	11	11	10	5	6	4	2
	Unknown	3	----	----	----	----	----	----	2	----	----	----	----	1	----	2	1	----	----	----	----	----	----	----	----	----	----

Digitized by Google

Alpena	Totals	13	----	----	1	2	----	1	2	1	1	1	1	3	----	6	----	----	----	3	----	2	1	----	----	----	1
	Males	10	----	----	1	1	----	1	1	1	1	1	----	3	----	5	----	----	----	2	----	2	----	----	----	----	1
	Females	3	----	----	----	1	----	----	1	----	----	----	1	----	----	1	----	----	----	1	----	----	1	----	----	----	----
Antrim	Totals	10	1	1	----	2	----	----	1	1	1	2	1	----	----	7	----	----	----	1	1	----	1	----	----	----	----
	Males	8	----	1	----	1	----	----	1	1	1	2	1	----	----	6	----	----	----	1	1	----	----	----	----	----	----
	Females	2	1	----	----	1	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	1	----	----	----	----
Barry	Totals	164	5	10	10	15	19	16	14	11	27	15	9	12	1	70	11	9	8	11	8	7	9	7	17	6	1
	Males	85	1	7	7	6	12	6	5	6	12	10	6	6	1	40	6	4	3	3	2	3	3	4	12	4	1
	Females	79	4	3	3	9	7	10	9	5	15	5	3	6	----	30	5	5	5	8	6	4	6	3	5	2	----
Bay	Totals	209	7	11	15	14	14	15	18	34	13	24	19	24	1	119	23	3	7	21	14	4	6	5	4	3	----
	Males	120	4	5	6	9	7	11	9	21	9	14	11	14	----	66	17	2	3	13	7	3	4	2	2	1	----
	Females	88	3	6	9	5	7	3	9	13	4	10	8	10	1	52	6	1	4	8	7	1	2	3	2	2	----
	Unknown	1	----	----	----	----	----	1	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----
Benzie	Totals	18	1	1	2	----	2	----	3	1	2	4	1	1	----	12	----	----	----	----	1	1	1	1	----	----	2
	Males	8	1	1	2	----	1	----	1	----	----	2	----	----	----	5	----	----	----	----	----	1	----	1	----	----	1
	Females	10	----	----	----	----	1	----	2	1	2	2	1	1	----	7	----	----	----	----	1	----	1	----	----	----	1
Berrien	Totals	274	10	18	19	20	16	9	22	32	45	27	27	32	2	98	32	18	18	26	25	21	9	17	13	9	3
	Males	147	6	7	12	11	8	5	13	19	25	11	11	19	----	52	16	5	10	5	10	14	6	14	6	7	2
	Females	125	4	6	7	9	8	4	9	13	20	14	16	13	2	40	16	8	3	21	15	7	3	3	7	2	----
	Unknown	2	----	----	----	----	----	----	----	----	----	2	----	----	----	1	----	----	----	----	----	----	----	----	----	----	1

* For counties and townships not represented by returns of deaths in 1871 see Exhibit H, preceding.

Digitized by Google

TABLE X.—*Exhibiting, for the State and Counties, by Sex, the Number of Deaths returned as having occurred in Michigan during the Year 1871, and in each Month of the Year; also the Number of Deaths at each period of Age.*

STATE. AND COUNTIES.	SEX.	Year 1871.	MONTHS.													AGES.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
State*	Totals	9728	529	578	781	721	750	626	788	1083	1055	933	798	1029	57	3843	575	284	374	896	733	592	594	664	644	311	218
	Males	5190	290	283	418	379	379	329	442	572	562	507	444	557	28	2097	269	134	159	385	344	340	370	396	376	181	139
	Females	4503	238	293	359	342	369	295	342	507	490	421	352	469	26	1717	304	149	215	511	389	252	224	268	268	130	76
	Unknown	35	1	2	4	----	2	2	4	4	3	5	2	3	3	29	2	1	----	----	----	----	----	----	----	----	3
Alcona	Totals	5	----	----	----	----	----	----	----	1	2	----	----	1	1	3	----	----	----	----	----	----	----	1	----	----	1
	Males	4	----	----	----	----	----	----	----	----	2	----	----	1	1	2	----	----	----	----	----	----	----	1	----	----	1
	Females	1	----	----	----	----	----	----	----	1	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----
Allegan	Totals	278	11	12	19	22	21	15	17	33	43	38	26	21	----	125	14	11	6	24	16	18	27	13	14	5	5
	Males	143	6	5	12	12	13	5	10	17	21	17	16	9	----	69	5	3	4	13	5	7	17	8	8	1	3
	Females	132	5	7	7	10	8	10	5	16	22	21	10	11	----	54	8	8	2	11	11	11	10	5	6	4	2
	Unknown	3	----	----	----	----	----	----	2	----	----	----	----	1	----	2	1	----	----	----	----	----	----	----	----	----	----

Digitized by Google

Alpena	Totals	13	----	----	1	2	----	1	2	1	1	1	1	3	----	6	----	----	----	3	----	2	1	----	----	----	1
	Males	10	----	----	1	1	----	1	1	1	1	1	----	3	----	5	----	----	----	2	----	2	----	----	----	----	1
	Females	3	----	----	----	1	----	----	1	----	----	----	1	----	----	1	----	----	----	1	----	----	1	----	----	----	----
Antrim	Totals	10	1	1	----	2	----	----	1	1	1	2	1	----	----	7	----	----	----	1	1	----	1	----	----	----	----
	Males	8	----	1	----	1	----	----	1	1	1	2	1	----	----	6	----	----	----	1	1	----	----	----	----	----	----
	Females	2	1	----	----	1	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	1	----	----	----	----
Barry	Totals	164	5	10	10	15	19	16	14	11	27	15	9	12	1	70	11	9	8	11	8	7	9	7	17	6	1
	Males	85	1	7	7	6	12	6	5	6	12	10	6	6	1	40	6	4	3	3	2	3	3	4	12	4	1
	Females	79	4	3	3	9	7	10	9	5	15	5	3	6	----	30	5	5	5	8	6	4	6	3	5	2	----
Bay	Totals	209	7	11	15	14	14	15	18	34	13	24	19	24	1	119	23	3	7	21	14	4	6	5	4	3	----
	Males	120	4	5	6	9	7	11	9	21	9	14	11	14	----	66	17	2	3	13	7	3	4	2	2	1	----
	Females	88	3	6	9	5	7	3	9	13	4	10	8	10	1	52	6	1	4	8	7	1	2	3	2	2	----
	Unknown	1	----	----	----	----	----	1	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----
Benzie	Totals	18	1	1	2	----	2	----	3	1	2	4	1	1	----	12	----	----	----	----	1	1	1	1	----	----	2
	Males	8	1	1	2	----	1	----	1	----	----	2	----	----	----	5	----	----	----	----	----	1	----	1	----	----	1
	Females	10	----	----	----	----	1	----	2	1	2	2	1	1	----	7	----	----	----	----	1	----	1	----	----	----	1
Berrien	Totals	274	10	13	19	20	16	9	22	32	45	27	27	32	2	93	32	13	13	26	25	21	9	17	13	9	3
	Males	147	6	7	12	11	8	5	13	19	25	11	11	19	----	52	16	5	10	5	10	14	6	14	6	7	2
	Females	125	4	6	7	9	8	4	9	13	20	14	16	13	2	40	16	8	3	21	15	7	3	3	7	2	----
	Unknown	2	----	----	----	----	----	----	----	----	----	2	----	----	----	1	----	----	----	----	----	----	----	----	----	----	1

* For counties and townships not represented by returns of deaths in 1871 see Exhibit H, preceding.

Digitized by Google

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	Year 1871.	MONTHS. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	AGES. Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Branch	Totals	174	9	15	14	15	12	12	13	17	20	11	14	22	----	53	12	6	7	26	13	8	12	12	17	7	1
	Males	102	5	10	10	8	6	5	8	12	10	8	6	14	----	30	6	4	4	11	7	4	8	8	14	5	1
	Females	72	4	5	4	7	6	7	5	5	10	3	8	8	----	23	6	2	3	15	6	4	4	4	3	2	----
Calhoun	Totals	327	22	27	36	29	19	24	20	25	33	31	24	34	4	96	26	11	12	32	23	20	25	30	27	18	7
	Males	172	15	15	17	17	10	11	14	8	20	15	10	18	2	52	14	8	3	11	16	11	11	19	13	10	4
	Females	151	7	12	18	12	9	13	5	17	13	15	13	15	2	41	11	3	9	21	7	9	14	11	14	8	3
	Unknown	4	----	----	1	----	----	----	----	----	----	1	1	1	----	3	1	----	----	----	----	----	----	----	----	----	----
Cass	Totals	135	9	14	5	8	11	6	15	18	12	17	10	10	----	51	7	2	4	10	8	7	11	16	14	4	1
	Males	69	3	6	3	5	4	4	10	9	8	7	5	5	----	29	1	----	2	3	1	4	7	11	9	2	----
	Females	66	6	8	2	3	7	2	5	9	4	10	5	5	----	22	6	2	2	7	7	3	4	5	5	2	1
Charlevoix	Totals	16	----	----	----	----	1	1	----	3	2	3	1	5	----	9	4	1	----	----	----	----	----	1	----	----	1
	Males	7	----	----	----	----	----	----	----	1	1	2	1	2	----	3	1	1	----	----	----	----	----	1	----	----	1
	Females	9	----	----	----	----	1	1	----	2	1	1	----	3	----	6	3	----	----	----	----	----	----	----	----	----	----

Digitized by Google

Cheboygan	Totals	12	----	2	1	----	----	----	1	1	1	3	1	2	----	5	----	2	1	----	1	1	----	1	1	----	----
	Males	7	----	1	1	----	----	----	1	----	1	2	----	1	----	2	----	1	1	----	1	1	----	----	1	----	----
	Females	5	----	1	----	----	----	----	----	1	----	1	1	1	----	3	----	1	----	----	----	----	----	1	----	----	----
Chippewa	Totals	28	6	2	1	4	2	----	2	1	3	----	----	2	----	8	1	----	1	3	1	----	2	2	----	5	----
	Males	9	2	----	----	3	1	----	----	----	2	----	----	1	----	3	----	----	1	----	1	----	----	2	----	2	----
	Females	14	4	2	1	1	1	----	2	1	1	----	----	1	----	5	1	----	----	3	----	----	2	----	----	3	----
Clare	Totals	9	1	1	1	----	1	1	----	1	1	1	1	----	----	4	1	1	----	2	----	----	----	----	----	----	1
	Males	5	----	----	----	----	1	1	----	1	1	----	1	----	----	3	1	----	----	----	----	----	----	----	----	----	1
	Females	4	1	1	1	----	----	----	----	----	----	1	----	----	----	1	----	1	----	2	----	----	----	----	----	----	----
Clinton	Totals	171	11	14	15	13	15	18	11	17	15	11	16	15	----	62	13	4	6	15	16	9	11	16	14	3	2
	Males	71	6	9	5	5	6	4	6	8	6	4	7	5	----	30	6	1	1	8	4	2	4	6	6	2	1
	Females	100	5	5	10	8	9	14	5	9	9	7	9	10	----	32	7	3	5	7	12	7	7	10	8	1	1
Delta	Totals	23	1	----	1	1	2	5	1	1	4	1	2	4	----	13	2	1	1	2	1	1	1	1	----	----	----
	Males	11	1	----	----	----	1	3	1	----	3	1	----	1	----	8	----	----	----	----	1	----	1	1	----	----	----
	Females	12	----	----	1	1	1	2	----	1	1	----	2	3	----	5	2	1	1	2	----	1	----	----	----	----	----
Eaton	Totals	210	12	16	18	28	12	15	21	11	26	16	18	15	2	70	8	9	7	19	18	17	18	13	16	7	8
	Males	98	5	8	9	12	4	3	12	6	11	8	9	9	2	30	6	4	1	7	7	9	9	5	10	4	6
	Females	112	7	8	9	16	8	12	9	5	15	8	9	6	----	40	2	5	6	12	11	8	9	8	6	3	2

Digitized by Google

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	Year 1871.	MONTHS.													AGES.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Emmet	Totals	47	3	----	1	3	6	3	6	6	2	5	4	8	----	26	4	3	5	1	1	3	1	1	1	----	1
	Males	30	1	----	1	1	6	2	4	4	1	2	3	5	----	16	3	3	1	1	1	2	----	1	1	----	1
	Females	17	2	----	----	2	----	1	2	2	1	3	1	3	----	10	1	----	4	----	----	1	1	----	----	----	----
Genesee	Totals	207	11	12	16	15	31	11	15	21	17	17	22	19	----	75	14	4	6	21	17	10	18	15	17	8	2
	Males	102	9	5	9	7	14	6	5	13	8	8	9	9	----	45	9	----	2	7	5	5	9	8	6	4	2
	Females	105	2	7	7	8	17	5	10	8	9	9	13	10	----	30	5	4	4	14	12	5	9	7	11	4	----
Gr. Traverse	Totals	25	----	1	1	5	2	7	----	1	5	----	----	3	----	11	----	----	----	1	2	2	1	4	1	1	2
	Males	13	----	1	----	2	1	4	----	1	3	----	----	1	----	5	----	----	----	1	1	1	----	2	1	1	1
	Females	12	----	----	1	3	1	3	----	----	2	----	----	2	----	6	----	----	----	----	1	1	1	2	----	----	1
Gratiot	Totals	79	1	4	10	6	9	6	5	6	11	8	8	5	----	38	8	2	8	7	1	1	3	5	5	1	----
	Males	40	----	1	3	3	5	3	2	5	6	5	3	4	----	23	2	1	1	2	----	1	2	3	4	1	----
	Females	39	1	3	7	3	4	3	3	1	5	3	5	1	----	15	6	1	7	5	1	----	1	2	1	----	----

Digitized by Google

Hillsdale	Totals	286	24	26	45	16	15	8	20	24	30	28	28	22	----	81	22	8	18	29	14	19	34	22	28	15	1
	Males	133	6	12	22	7	6	5	13	7	14	17	14	10	----	40	8	3	4	10	5	7	18	13	18	6	1
	Females	153	18	14	23	9	9	3	7	17	16	11	14	12	----	41	14	5	9	19	9	12	16	9	10	9	----
Houghton	Totals	110	2	4	5	8	9	10	8	7	10	11	14	22	----	59	2	5	6	10	8	8	6	3	1	2	----
	Males	73	1	3	4	5	6	7	8	4	7	6	10	12	----	40	----	4	4	7	5	5	5	1	1	1	----
	Females	37	1	1	1	3	3	3	----	3	3	5	4	10	----	19	2	1	2	3	3	3	1	2	----	1	----
Huron	Totals	106	3	6	8	6	5	6	2	8	5	28	20	9	----	47	4	3	6	6	15	5	4	4	5	----	7
	Males	59	1	3	2	6	2	5	----	4	2	13	14	7	----	30	2	---	3	2	7	1	3	1	3	----	7
	Females	47	2	3	6	----	3	1	2	4	3	15	6	2	----	17	2	3	3	4	8	4	1	3	2	----	----
Ingham	Totals	192	12	11	15	14	8	16	17	17	27	21	20	14	----	68	10	5	4	23	16	9	10	17	20	5	5
	Males	103	10	4	12	7	4	7	11	7	16	8	10	7	----	35	4	2	2	9	10	6	4	13	13	2	3
	Females	88	2	7	3	7	4	9	6	10	10	13	10	7	----	32	6	3	2	14	6	3	6	4	7	3	2
	Unknown	1	----	----	----	----	----	----	----	----	1	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----
Ionia	Totals	225	11	15	34	11	20	15	21	20	26	16	7	25	4	76	7	7	13	23	15	21	13	21	11	7	11
	Males	127	5	7	19	7	13	8	15	10	13	9	5	14	2	39	4	4	7	14	8	14	7	12	6	7	5
	Females	97	6	8	15	4	7	7	6	10	12	7	2	11	2	37	3	3	6	9	7	7	6	9	5	----	5
	Unknown	1	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----	----	---	----	----	1
Iosco	Totals	23	----	2	2	----	1	2	6	2	5	1	----	2	----	15	----	----	----	4	2	----	1	----	----	----	1
	Males	14	----	1	1	----	----	1	4	1	4	1	----	1	----	11	----	----	----	1	1	----	----	----	----	----	1
	Females	9	----	1	1	----	1	1	2	1	1	----	----	1	----	4	----	----	----	3	1	----	1	----	----	----	----

Digitized by Google

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	Year 1871.	MONTHS. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	AGES. Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Isabella	Totals	51	3	2	5	3	3	7	5	11	4	3	3	2	----	28	2	2	5	9	----	3	----	2	2	----	3
	Males	25	2	1	2	1	1	2	3	8	2	1	1	1	----	9	1	1	2	5	----	3	----	2	1	----	1
	Females	26	1	1	3	2	2	5	2	3	2	2	2	1	----	14	1	1	3	4	----	----	----	----	1	----	2
Jackson	Totals	235	12	12	21	11	18	21	22	25	22	20	20	31	----	65	11	10	11	23	16	11	15	22	24	20	7
	Males	134	7	5	13	6	12	12	13	12	12	10	12	20	----	36	3	7	6	3	9	7	12	15	15	17	4
	Females	101	5	7	8	5	6	9	9	13	10	10	8	11	----	29	8	3	5	20	7	4	3	7	9	3	3
Kalamazoo	Totals	248	18	7	20	19	22	19	12	32	28	21	23	27	----	78	17	9	11	24	25	25	18	16	16	5	4
	Males	129	15	3	12	12	8	10	8	18	15	10	10	8	----	46	5	2	4	11	12	13	16	4	12	3	1
	Females	117	3	4	8	7	13	9	3	14	13	11	13	19	----	31	12	6	7	13	13	12	2	12	4	2	3
	Unknown	2	----	----	----	----	1	----	1	----	----	----	----	----	----	1	----	1	----	----	----	----	----	----	----	----	----
Kalkaska	Totals	3	1	----	----	----	----	----	----	----	----	----	----	2	----	----	----	1	----	----	1	1	----	----	----	----	----
	Males	2	1	----	----	----	----	----	----	----	----	----	----	1	----	----	----	1	----	----	----	1	----	----	----	----	----
	Females	1	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	1	----	----	----	----	----	----

Digitized by Google

Kent	Totals	419	26	29	28	21	40	27	38	56	48	40	27	38	1	182	24	9	17	30	33	33	23	22	30	12	4
	Males	218	10	16	16	10	17	10	19	34	25	22	15	23	1	95	12	4	5	10	14	23	14	13	18	6	4
	Females	198	16	13	12	11	22	16	19	21	23	18	12	15	----	84	12	5	12	20	19	10	9	9	12	6	----
	Unknown	3	----	----	----	----	1	1	----	1	----	----	----	----	----	3	----	----	----	----	----	----	----	----	----	----	----
Keweenaw[a]	----------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Lake	Totals	5	----	----	----	1	1	1	1	1	----	----	----	----	----	2	1	----	----	----	----	----	1	----	----	----	1
	Males	2	----	----	----	----	----	----	1	1	----	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	1
	Females	3	----	----	----	1	1	1	----	----	----	----	----	----	----	2	1	----	----	----	----	----	----	----	----	----	----
Lapeer	Totals	125	9	8	10	11	8	12	3	12	14	9	9	19	1	46	5	3	5	14	13	3	7	13	9	6	1
	Males	69	4	4	6	7	5	8	3	7	6	5	5	8	1	27	4	1	1	6	7	2	6	6	5	3	1
	Females	55	5	4	4	4	3	4	----	5	8	4	4	10	----	18	1	2	4	8	6	1	1	7	4	3	----
	Unknown	1	----	----	----	----	----	----	----	----	----	----	----	1	----	1	----	----	----	----	----	----	----	----	----	----	----
Leelanaw	Totals	55	3	3	5	5	3	1	3	4	11	9	4	4	----	28	10	3	1	4	3	2	----	1	----	1	2
	Males	21	1	1	2	4	1	----	2	2	4	1	1	2	----	15	----	1	----	2	1	----	----	1	----	----	1
	Females	34	2	2	3	1	2	1	1	2	7	8	3	2	----	13	10	2	1	2	2	2	----	----	----	1	1
Lenawee	Totals	331	19	20	22	29	29	9	32	38	36	25	32	40	----	106	20	6	13	26	29	19	24	34	36	13	5
	Males	157	9	7	10	15	16	3	15	15	16	12	19	20	----	61	9	----	1	10	5	12	10	22	19	5	3
	Females	174	10	13	12	14	13	6	17	23	20	13	13	20	----	45	11	6	12	16	24	7	14	12	17	8	2

[a] No returns of deaths.

Digitized by Google

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	Year 1871.	MONTHS.													AGES.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Livingston	Totals	125	3	9	13	8	11	6	12	15	13	7	12	16	----	34	3	1	6	17	10	7	8	12	15	10	2
	Males	67	2	4	6	4	7	4	3	12	8	2	5	10	----	20	2	1	2	9	4	1	5	10	7	6	----
	Females	58	1	5	7	4	4	2	9	3	5	5	7	6	----	14	1	----	4	8	6	6	3	2	8	4	2
Mackinac[a]	----------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Macomb	Totals	249	28	25	24	21	16	14	16	22	24	17	14	25	3	82	18	5	8	25	24	18	11	28	19	8	8
	Males	129	13	11	14	10	6	8	12	9	14	11	6	18	2	41	8	3	4	12	11	12	9	13	9	4	3
	Females	116	15	13	9	11	10	6	4	13	9	6	7	12	1	37	10	2	4	13	13	6	2	10	10	4	5
	Unknown	4	----	1	1	----	----	----	----	----	1	----	1	----	----	4	----	----	----	----	----	----	----	----	----	----	----
Manistee	Totals	35	----	----	3	----	1	3	----	2	8	10	4	4	----	13	1	1	1	5	1	4	3	1	----	----	5
	Males	21	----	----	----	----	1	3	----	1	3	8	2	3	----	4	----	1	----	4	1	3	3	1	----	----	4
	Females	14	----	----	3	----	----	----	----	1	5	2	2	1	----	9	1	----	1	1	----	1	----	----	----	----	1

Digitized by Google

Manitou	Totals	2	----	----	1	----	----	----	----	----	----	----	----	1	----	1	----	----	----	----	1	----	----	----	----	----	----
	Males	1	----	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	1	----	----	----	----	----	----
	Females	1	----	----	1	----	----	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	----	----	----
Marquette	Totals	154	12	16	10	13	8	6	11	16	10	10	13	28	1	94	8	8	9	8	10	11	6	----	3	----	2
	Males	87	7	8	8	9	3	3	5	10	9	3	9	12	1	49	3	2	4	6	9	6	5	----	1	----	2
	Females	67	5	8	2	4	5	3	6	6	1	7	4	16	----	45	5	1	5	2	1	5	1	----	2	----	----
Mason	Totals	22	1	----	----	----	5	----	2	2	5	3	2	2	----	7	1	----	2	2	2	2	----	2	----	1	3
	Males	13	1	----	----	----	3	----	1	1	1	3	2	1	----	6	1	----	1	----	2	1	----	1	----	----	1
	Females	9	----	----	----	----	2	----	1	1	4	----	----	1	----	1	----	----	1	2	----	1	----	1	----	1	2
Mecosta	Totals	46	4	1	1	3	2	1	3	5	5	5	8	5	3	21	3	2	1	4	6	2	1	4	----	2	----
	Males	27	3	1	1	2	2	----	2	4	2	3	4	2	1	14	2	2	1	2	2	1	1	1	----	1	----
	Females	19	1	----	----	1	----	1	1	1	3	2	4	3	2	7	1	----	----	2	4	1	----	3	----	1	----
Menominee	Totals	3	----	----	----	----	----	----	----	1	1	----	----	1	----	2	----	----	----	1	----	----	----	----	----	----	----
	Males	1	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----	----	1	----	----	----	----	----	----	----
	Females	2	----	----	----	----	----	----	----	1	----	----	----	1	----	2	----	----	----	----	----	----	----	----	----	----	----
Midland	Totals	38	----	----	3	2	3	4	7	5	3	4	3	4	----	17	2	1	4	6	3	----	2	1	1	----	1
	Males	20	----	----	1	----	2	3	4	1	2	4	1	2	----	8	----	----	4	2	2	----	1	1	1	----	1
	Females	18	----	----	2	2	1	1	3	4	1	----	2	2	----	9	2	1	----	4	1	----	1	----	----	----	----

* No returns of deaths.

Digitized by Google

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	Year 1871.	MONTHS. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	AGES. Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Missaukee*	----------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Monroe	Totals	202	9	15	19	15	20	10	10	19	28	22	18	21	1	79	11	4	9	18	13	18	13	12	12	9	4
	Males	113	5	7	14	5	10	6	8	12	18	14	11	13	----	39	6	3	6	9	6	11	8	6	8	9	2
	Females	89	4	8	5	10	10	4	7	7	10	8	7	8	1	40	5	1	3	9	7	7	5	6	4	----	2
Montcalm	Totals	121	5	10	12	8	6	7	8	10	16	16	8	14	1	50	10	2	4	14	10	7	5	9	2	4	4
	Males	60	3	6	4	3	4	3	3	4	7	9	6	7	1	23	4	1	2	6	4	4	4	7	1	2	2
	Females	61	2	4	8	5	2	4	5	6	9	7	2	7	----	27	6	1	2	8	6	3	1	2	1	2	2
Muskegon	Totals	136	5	7	9	13	12	13	12	24	8	10	10	13	----	60	13	6	4	10	8	8	13	6	4	1	3
	Males	76	3	4	6	6	7	7	6	11	7	5	5	9	----	32	9	3	2	4	5	4	7	4	3	1	2
	Females	60	2	3	3	7	5	6	6	13	1	5	5	4	----	28	4	3	2	6	3	4	6	2	1	----	1

Digitized by Google

Newaygo..	Totals....	29	....	....	1	4	1	....	3	2	6	4	4	4	....	10	1	....	1	3	4	2	....	1	1	....	6
	Males....	17	....	....	....	2	1	....	1	1	4	2	2	4	....	6	1	....	....	....	3	2	....	....	1	....	4
	Females.	11	....	....	1	2	....	....	1	1	2	2	2	....	....	4	....	....	1	3	1	....	....	1	....	....	1
	Unknown	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Oakland...	Totals....	265	14	11	25	19	33	19	16	26	34	29	19	20	....	58	9	7	4	30	24	17	29	34	31	13	9
	Males....	139	11	7	11	10	15	14	11	14	12	19	8	7	....	27	3	3	....	12	7	10	23	20	18	9	7
	Females.	126	3	4	14	9	18	5	5	12	22	10	11	13	....	31	6	4	4	18	17	7	6	14	13	4	2
Oceana.....	Totals....	70	5	4	4	3	10	2	....	6	9	5	6	16	....	25	1	2	2	8	12	3	5	4	2	1	5
	Males....	38	2	2	1	1	4	1	....	4	5	2	3	13	....	13	1	....	....	6	7	....	3	2	2	1	3
	Females.	31	3	2	2	2	6	1	....	2	4	3	3	3	....	11	....	2	2	2	5	3	2	2	....	....	2
	Unknown	1	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Ontonagon.	Totals....	18	....	2	2	2	2	1	1	1	1	2	2	2	....	9	1	....	2	1	....	2	2	....	1	....	....
	Males....	11	....	1	2	2	2	....	....	1	....	1	2	....	....	7	....	....	1	....	....	1	2	....	....	....	....
	Females.	7	....	1	....	....	....	1	1	....	1	1	....	2	....	2	1	....	1	1	....	1	....	....	1	....	....
Osceola.....	Totals....	26	4	2	1	2	1	3	2	2	2	1	1	5	....	16	....	....	....	1	1	2	2	1	1	1	1
	Males....	17	2	2	1	1	1	2	1	....	1	1	1	4	....	11	....	....	....	....	1	1	1	1	1	1	....
	Females.	9	2	....	....	1	....	1	1	2	1	....	....	1	....	5	....	....	....	1	....	1	1	....	....	....	1

* No deaths.

Digitized by Google

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	Year 1871.	MONTHS. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	AGES. Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Ottawa	Totals	206	8	17	18	14	16	10	16	26	26	20	14	21	....	85	13	10	7	19	12	15	14	15	7	6	3
	Males	117	6	10	10	10	11	5	10	15	11	10	9	10	....	49	5	7	4	12	4	9	9	9	4	3	2
	Females	89	2	7	8	4	5	5	6	11	15	10	5	11	....	36	8	3	3	7	8	6	5	6	3	3	1
Presque Isle	Totals	7	....	....	....	....	....	....	....	1	3	1	....	2	....	4	....	....	....	1	1	....	....	....	1	....	....
	Males	5	....	....	....	....	....	....	....	....	3	1	....	1	....	3	....	....	....	1	1	....	....	....	....	....	....
	Females	2	....	....	....	....	....	....	....	1	....	....	....	1	....	1	....	....	....	....	....	....	....	....	1	....	....
Saginaw	Totals	336	10	23	16	24	31	19	34	47	45	42	18	24	3	177	23	9	10	26	21	16	16	13	13	6	6
	Males	184	4	11	8	15	12	9	20	29	27	21	12	13	3	98	11	6	3	14	14	8	9	5	9	3	4
	Females	152	6	12	8	9	19	10	14	18	18	21	6	11	....	79	12	3	7	12	7	8	7	8	4	3	2
Sanilac	Totals	73	5	6	4	10	7	3	4	10	2	6	6	10	....	21	1	6	7	12	9	3	3	2	6	1	2
	Males	25	1	3	2	4	2	....	2	3	1	2	2	3	....	7	1	2	1	....	2	1	2	2	5	1	1
	Females	48	4	3	2	6	5	3	2	7	1	4	4	7	....	14	....	4	6	12	7	2	1	....	1	....	1

Digitized by Google

Schoolcraft*	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Shiawassee.	Totals....	155	8	4	11	13	10	8	15	23	18	11	15	19	....	58	4	2	12	18	10	12	4	17	12	3	3
	Males....	85	5	3	4	6	4	4	9	17	9	7	6	11	....	32	2	1	9	6	4	9	2	11	8	1	....
	Females.	70	3	1	7	7	6	4	6	6	9	4	9	8	....	26	2	1	3	12	6	3	2	6	4	2	3
St. Clair....	Totals....	334	21	14	36	23	22	26	29	33	33	30	18	49	....	130	21	11	16	37	17	17	18	19	26	11	11
	Males....	177	11	3	15	12	16	14	22	13	17	14	12	28	....	64	9	5	9	18	12	9	9	14	17	3	8
	Females.	153	9	10	20	11	6	12	7	20	16	15	6	21	....	62	12	6	7	19	5	8	9	5	9	8	3
	Unknown	4	1	1	1	....	....	....	....	....	....	1	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....
St. Joseph.	Totals....	175	8	12	14	11	11	13	11	20	18	19	16	22	....	56	11	5	5	18	14	8	16	14	17	8	3
	Males....	79	5	3	7	6	6	6	6	6	8	7	7	12	....	23	4	2	2	7	9	1	10	6	8	5	2
	Females..	96	3	9	7	5	5	7	5	14	10	12	9	10	....	33	7	3	3	11	5	7	6	8	9	3	1
Tuscola....	Totals....	81	4	2	5	8	7	6	9	5	12	5	5	13	....	31	7	2	4	7	5	3	5	3	5	2	7
	Males....	48	3	2	2	4	5	3	3	3	7	3	2	11	....	20	6	....	....	5	2	....	4	1	3	1	6
	Females.	33	1	....	3	4	2	3	6	2	5	2	3	2	....	11	1	2	4	2	3	3	1	2	2	1	1
Van Buren.	Totals....	232	10	9	12	9	15	23	21	36	25	27	21	23	1	81	10	13	7	13	20	13	16	21	17	13	3
	Males....	116	7	3	5	6	6	12	9	15	13	15	12	13	....	45	3	4	1	10	5	9	8	10	9	11	1
	Females.	116	3	6	7	3	9	11	12	21	12	12	9	10	1	36	7	9	6	8	15	4	8	11	8	2	2

* No returns of deaths.

Digitized by Google

TABLE X.—CONTINUED.—*Deaths by Counties, by Sex, by Months, and by Age.*

COUNTIES.	SEX.	Year 1871.	MONTHS.													AGES.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Washtenaw	Totals....	297	24	18	28	31	26	28	17	29	28	36	25	22	....	76	16	9	7	31	30	18	18	42	39	10	1
	Males....	172	14	6	16	15	17	15	12	18	17	21	18	8	....	52	6	5	2	9	16	11	13	29	23	4	1
	Females.	124	10	12	7	16	9	8	5	10	6	15	12	14	....	23	10	4	4	22	14	7	5	13	16	6	....
	Unknown	1	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Wayne	Totals....	1444	77	70	107	105	98	87	158	194	130	124	124	148	27	712	72	30	45	106	106	93	71	70	66	38	35
	Males....	817	45	37	61	55	42	55	79	104	72	85	87	85	10	395	37	16	24	52	56	62	55	42	34	21	23
	Females.	621	32	33	46	50	56	32	74	88	58	38	37	63	14	311	35	14	21	54	50	31	16	28	32	17	12
	Unknown	6	....	....	....	....	....	....	....	2	....	1	....	....	3	6	....	....	....	....	....	....	....	....	....	....	....
Wexford	Totals....	4	....	....	1	2	....	....	....	1	....	....	....	....	....	2	....	....	....	....	2	....	....	....	....	....	....
	Males....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
	Females.	3	....	....	1	2	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2	....	....	....	....	....	....

Digitized by Google

TABLE XI.—*Deaths in Michigan during the Year 1871, distinguishing the Color by Number and Proportion of each Sex.*

COLOR.	SEX.	Number of Deaths Returned.	Per Cent. of each Sex to Total of Both Sexes.	Males to 100 Females.
All Colors	Total	9,728	.....	.....
	Males	5,190	53.54	115.25
	Females	4,503	46.46	100.00
	Unknown	35	.....	.....
White	Total	9,406	.....	.....
	Males	5,024	53.53	115.20
	Females	4,361	46.47	100.00
	Unknown	21	.....	.....
Black	Total	113	.....	.....
	Males	60	54.05	117.64
	Females	51	45.95	100.00
	Unknown	2	.....	.....
Mulatto	Total	15	.....	.....
	Males	9	60.00	150.00
	Females	6	40.00	100.00
Indian	Total	114	.....	.....
	Males	65	57.02	132.65
	Females	49	42.98	100.00
Unknown	Total	80	.....	.....
	Males	32	47.06	88.88
	Females	36	52.94	100.00
	Unknown	12	.....	.....
Black and Mulatto	Total	128	.....	.....
	Males	69	54.76	121.05
	Females	57	45.24	100.00
	Unknown	2	.....	.....

Digitized by Google

TABLE XII.—*Exhibiting, by Number and by Sex, for the State and Counties, the Color of all persons returned as having died in Michigan during the year ending December 31, 1871.*

STATE AND COUNTIES.	All Colors.				White.				Black.				Mulatto.				Indian.				Unknown.				Remarks.
	Total.	Male.	Female.	Unknown.	Total.	Male.	Female.	Unknown.	Total	Male.	Female.	Unknown.	Total.	Male.	Female.	Unknown.	Total.	Male.	Female.	Unknown.	Total.	Male.	Female.	Unknown.	
State	9,728	5,190	4,503	35	9,406	5,024	4,361	21	118	‡ 60	[a] 51	[1]2	15	9	6	..	114	[c] 65	[d] 49	..	80	32	36	12	‡ 3 African, 36 Colored, 2 Negro. [a] 2 African, 37 Colored. [b] 1 African, 1 Colored. [c] 1 half-breed, 1 half white, 2 red, 1 white and red. [d] 1 half-breed, 4 red, 2 white and red.
Alcona	5	4	1	..	5	4	1	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Allegan	278	143	132	3	266	137	126	3	5	[e] 3	[e] 2	..	..	..	..	..	7	3	4	..	..	..	..	..	[e] 2 Colored.
Alpena	13	10	3	..	12	9	3	..	1	1	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Antrim	10	8	2	..	10	8	2	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Barry	164	85	79	..	164	85	79	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Bay	209	120	88	1	195	110	85	..	....	....	....	..	..	..	..	..	13	10	3	..	1	..	..	1	
Benzie	18	8	10	..	17	7	10	..	1	[f] 1	....	..	..	..	..	..	....	....	....	..	..	..	..	..	[f] 1 Colored.
Berrien	274	147	125	2	264	144	120	..	5	2	3	..	2	1	1	..	....	....	....	..	3	..	1	2	
Branch	174	102	72	..	174	102	72	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Calhoun	327	172	151	4	320	168	150	2	2	2	....	..	1	1	..	..	....	....	....	..	4	1	1	2	
Cass	135	69	66	..	123	65	58	..	10	[g] 3	[h] 7	..	1	..	1	..	1	1	....	..	..	..	..	..	[g] 2 Colored and 1 Negro. [h] 6 Colored.

Charlevoix	16	7	9	..	15	7	8	..	1	....	1	..	..	..	..	..	....	....	....	..	..	..	..	..	
Cheboygan	12	7	5	..	11	6	5	..	....	....	....	..	..	..	..	..	1	1	....	..	..	..	..	..	
Chippewa	23	9	14	..	18	8	10	..	....	....	....	..	..	..	..	..	5	[i] 1	[j] 4	..	..	..	..	..	[i] 1 Half-breed. [j] 1 Half-breed and 3 Red.
Clare	9	5	4	..	9	5	4	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Clinton	171	71	100	..	171	71	100	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Delta	23	11	12	..	23	11	12	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Eaton	210	98	112	..	210	98	112	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Emmet	47	30	17	..	5	4	1	..	....	....	....	..	..	..	..	..	42	[k] 26	16	..	..	..	..	..	[k] 1 half White.
Genesee	207	102	105	..	207	102	105	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Gr. Traverse	25	13	12	..	25	13	12	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Gratiot	79	40	39	..	76	39	37	..	....	....	....	..	..	..	..	..	....	....	....	..	3	1	2	..	
Hillsdale	286	133	153	..	285	132	153	..	1	1	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Houghton	110	73	37	..	110	73	37	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Huron	106	59	47	..	105	59	46	..	....	....	....	..	..	..	..	..	1	....	1	..	..	..	..	..	
Ingham	192	103	88	1	191	103	88	..	1	....	....	[l] 1	..	..	..	..	....	....	....	..	..	..	..	..	[l] 1 Colored.
Ionia	225	127	97	1	224	127	97	..	....	....	....	..	..	..	..	..	....	....	....	..	1	..	..	1	
Iosco	23	14	9	..	23	14	9	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Isabella	51	25	26	..	33	17	16	..	....	....	....	..	..	..	..	..	16	7	9	..	2	1	1	..	
Jackson	235	134	101	..	233	134	99	..	1	....	1	..	1	..	1	..	....	....	....	..	..	..	..	..	
Kalamazoo	248	129	117	2	241	124	115	2	5	[m] 3	[n] 2	..	..	..	..	..	....	....	....	..	2	2	..	..	[m] 3 Colored. [n] 2 Colored.
Kalkaska	3	2	1	..	3	2	1	..	....	....	....	..	..	..	..	..	....	....	....	..	..	..	..	..	
Kent	419	218	198	3	413	215	198	..	2	2	....	..	..	..	..	..	....	....	....	..	4	1	..	3	

Digitized by Google

TABLE XII.—CONTINUED.—*Deaths, by Counties, by Color, and by Sex.*

COUNTIES.	All Colors.				White.				Black.				Mulatto.				Indian.				Unknown				Remarks.
	Total.	Male.	Female.	Unknown.	Total.	Male.	Female.	Unknown.	Total.	Male.	Female.	Unknown.	Total.	Male.	Female.	Unknown.	Total.	Male.	Female.	Unknown.	Total.	Male.	Female.	Unknown.	
Keweenaw *	--------	------	------	--	--------	------	------	--	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	* No returns of deaths.
Lake	5	2	3	--	5	2	3	--	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	
Lapeer	125	69	55	1	125	69	55	1	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	
Leelanaw	55	21	34	--	48	18	30	--	----	----	----	--	--	--	--	--	6	2	4	--	1	1	--	--	
Lenawee	331	157	174	--	292	141	151	--	2	----	2	--	2	1	1	--	----	----	----	--	35	15	20	--	
Livingston	125	67	58	--	123	67	56	--	1	----	o 1	--	--	--	--	--	----	----	----	--	1	--	1	--	o 1 Colored.
Mackinac *	--------	------	------	--	--------	------	------	--	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	* No returns of deaths.
Macomb	249	129	116	4	249	129	116	4	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	
Manistee	35	21	14	--	35	21	14	--	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	
Manitou	2	1	1	--	2	1	1	--	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	
Marquette	154	87	67	--	148	84	64	--	----	----	----	--	3	2	1	--	3	p 1	q 2	--	--	--	--	--	p 1 White and Red. q 2 White and Red.
Mason	22	13	9	--	20	11	9	--	----	----	----	--	--	--	--	--	2	2	----	--	--	--	--	--	
Mecosta	46	27	19	--	46	27	19	--	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	
Menominee	3	1	2	--	3	1	2	--	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	
Midland	38	20	18	--	38	20	18	--	----	----	----	--	--	--	--	--	----	----	----	--	--	--	--	--	

Digitized by Google

Missaukee †	.....	.....	.....	..	.....	.....	.....	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	† No deaths.
Monroe	202	113	89	..	202	113	89	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	
Montcalm	121	60	61	..	121	60	61	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	
Muskegon	186	76	60	..	118	66	52	..	1	r 1	.....	..	..	..	..	..	.....	.....	.....	..	17	9	8	..	r 1 Negro.
Newaygo	29	17	11	1	29	17	11	1	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	
Oakland	265	139	126	..	260	135	125	..	5	s 4	1	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	s 1 African.
Oceana	70	38	31	1	55	30	25	..	3	t 1	t 1	t 1	..	..	..	..	12	7	5	..	..	..	..	..	t African.
Ontonagon	18	11	7	..	18	11	7	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	
Osceola	26	17	9	..	25	16	9	..	1	1	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	
Ottawa	206	117	89	..	205	116	89	..	1	u 1	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	u 1 Colored.
Presque Isle	7	5	2	..	7	5	2	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	
Saginaw	336	184	152	..	330	179	151	..	.....	.....	.....	..	3	3	..	..	3	v 2	w 1	..	..	..	..	..	v 2 Red. w 1 Red.
Sanilac	73	25	48	..	73	25	48	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	
Schoolcraft *	.....	.....	.....	..	.....	.....	.....	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	* No returns of deaths.
Shiawassee	155	85	70	..	155	85	70	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	
St. Clair	334	177	158	4	331	175	152	4	1	x 1	.....	..	..	..	..	..	.....	.....	.....	..	2	1	1	..	x 1 Colored.
St. Joseph	175	79	96	..	174	78	96	..	1	y 1	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	y 1 Colored.
Tuscola	81	48	33	..	80	48	32	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	1	..	1	..	
Van Buren	232	116	116	..	228	118	110	..	8	z 2	aa 6	..	..	..	..	..	1	1	.....	..	..	..	..	..	z 1 Colored and 1 African. aa 5 Colored and 1 African.
Washtenaw	297	172	124	1	285	165	119	1	10	bb 6	cc 4	..	2	1	1	..	.....	.....	.....	..	..	..	..	..	bb 8 Colored. cc 2 Colored.
Wayne	1,444	817	621	6	1,396	792	601	3	44	dd 24	ee 20	..	..	..	..	..	1	1	.....	..	3	..	..	3	dd 21 Colored. ee 19 Colored.
Wexford	4	1	3	..	4	1	3	..	.....	.....	.....	..	..	..	..	..	.....	.....	.....	..	..	..	..	..	

Digitized by Google

TABLE XIII.—*Exhibiting, by Number, and by Sex, for the State and Counties, the Nativity of all returned as having died in Michigan during the year ending December 31, 1871.*

STATE AND COUNTIES.	All Nativities.				Native.				Foreign.			Unknown.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
State	9,728	5190	4503	35	7759	4074	3655	30	1608	927	681	361	189	167	5
Alcona	5	4	1	....	5	4	1	....	....	....	....	....	....	....	..
Allegan	278	143	132	3	231	117	111	3	36	21	15	11	5	6	..
Alpena	13	10	3	....	7	5	2	....	6	5	1	....	....	....	..
Antrim	10	8	2	....	7	6	1	....	3	2	1	....	....	....	..
Barry	164	85	79	....	153	76	77	....	7	5	2	4	4	....	..
Bay	209	120	88	1	170	94	75	1	36	24	12	3	2	1	..
Benzie	18	8	10	....	16	7	9	....	2	1	1	....	....	....	..
Berrien	274	147	125	2	237	128	107	2	25	18	12	12	6	6	..
Branch	174	102	72	....	167	98	69	....	5	3	2	2	1	1	..
Calhoun	327	172	151	4	288	147	138	3	30	19	11	14	6	7	1
Cass	135	69	66	....	126	66	60	....	6	2	4	3	1	2	..
Charlevoix	16	7	9	....	15	6	9	....	1	1	....	....	....	....	..
Cheboygan	12	7	5	....	8	4	4	....	4	3	1	....	....	....	..
Chippewa	23	9	14	....	15	5	10	....	3	3	....	5	1	4	..
Clare	9	5	4	....	7	4	3	....	1	....	1	1	1	....	..
Clinton	171	71	100	....	149	63	86	....	18	6	12	4	2	2	..
Delta	23	11	12	....	17	9	8	....	6	2	4	....	....	....	..
Eaton	210	98	112	....	176	88	98	....	18	10	8	16	5	11	..
Emmet	47	30	17	....	47	30	17	....	....	....	....	....	....	....	..
Genesee	207	102	105	....	172	82	90	....	26	15	11	9	5	4	..
Gr. Traverse	25	13	12	....	18	9	9	....	5	3	2	2	1	1	..
Gratiot	79	40	39	....	74	38	36	....	4	2	2	1	....	1	..
Hillsdale	286	133	153	....	259	117	142	....	23	15	8	4	1	3	..
Houghton	110	73	37	....	70	45	25	....	40	28	12	....	....	....	..
Huron	106	59	47	....	56	33	23	....	45	21	24	5	5	....	..

Digitized by Google

TABLE XIII.—CONTINUED.

COUNTIES.	All Nativities.				Native.				Foreign.			Unknown.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Male.	Female.	Unknown.
Ingham	192	103	88	1	158	85	73	....	21	13	8	13	5	7	1
Ionia	225	127	97	1	182	103	78	1	27	16	11	16	8	8	..
Iosco	23	14	9	....	18	10	8	....	5	4	1	....	....	....	..
Isabella	51	25	26	....	47	23	24	....	2	1	1	2	1	1	..
Jackson	235	134	101	....	195	112	83	....	32	21	11	8	1	7	..
Kalamazoo	248	129	117	2	206	109	95	2	27	12	15	15	8	7	..
Kalkaska	3	2	1	....	2	1	1	....	1	1	....	....	....	....	..
Kent	419	218	198	3	332	167	162	3	69	41	28	18	10	8	..
Keweenaw *	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
Lake	5	2	3	....	4	2	2	....	1	....	1	....	....	....	..
Lapeer	125	69	55	1	94	54	39	1	26	13	13	5	2	3	..
Leelanaw	55	21	34	....	45	18	27	....	9	2	7	1	1	....	..
Lenawee	331	157	174	....	283	132	151	....	42	23	19	6	2	4	..
Livingston	125	67	58	....	106	57	49	....	13	8	5	6	2	4	..
Mackinac *	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
Macomb	249	129	116	4	194	99	91	4	45	25	21	9	5	4	..
Manistee	35	21	14	....	21	10	11	....	14	11	3	....	....	....	..
Manitou	2	1	1	....	1	....	1	....	1	1	....	....	....	....	..
Marquette	154	87	67	....	113	60	53	....	40	27	13	1	....	1	..
Mason	22	13	9	....	15	9	6	....	4	2	2	3	2	1	..
Mecosta	46	27	19	....	38	23	15	....	6	4	2	2	....	2	..
Menominee	3	1	2	....	3	1	2	....	....	....	....	....	....	....	..
Midland	38	20	18	....	30	16	14	....	8	4	4	....	....	....	..
Missaukee †	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
Monroe	202	113	89	....	163	89	74	....	36	21	15	3	3	....	..
Montcalm	121	60	61	....	110	56	54	....	8	2	6	3	2	1	..
Muskegon	136	76	60	....	113	63	50	....	20	12	8	3	1	2	..
Newaygo	29	17	11	1	22	13	9	....	3	2	1	4	2	1	1
Oakland	265	139	126	....	215	112	103	....	45	24	21	5	3	2	..
Oceana	70	38	31	1	51	27	23	1	7	3	4	12	8	4	..

* No returns of deaths.
† No deaths.

Digitized by Google

TABLE XIII.—CONTINUED.

COUNTIES.	All Nativities.				Native.				Foreign.			Unknown.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Ontonagon	18	11	7	....	10	7	3	....	8	4	4	....	....	....	..
Osceola	26	17	9	....	22	16	6	....	2	1	1	2	....	2	..
Ottawa	206	117	89	....	143	88	55	....	58	26	32	5	3	2	..
Presque Isle	7	5	2	....	5	4	1	....	2	1	1	....	....	....	..
Saginaw	336	184	152	....	249	136	113	....	83	47	36	4	1	3	..
Sanilac	73	25	48	....	33	11	22	....	38	13	25	2	1	1	..
Schoolcraft*	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	..
Shiawassee	155	85	70	....	139	74	65	....	13	11	2	3	....	3	..
St. Clair	334	177	153	4	230	117	109	4	86	45	41	18	15	3	..
St. Joseph	175	79	96	....	154	70	84	....	16	7	9	5	2	3	..
Tuscola	81	48	33	....	63	38	25	....	15	9	6	3	1	2	..
Van Buren	232	116	116	....	211	106	105	....	15	9	6	6	1	5	..
Washtenaw	297	172	124	1	241	135	105	1	54	37	17	2	....	2	..
Wayne	1,444	817	621	6	1009	544	461	4	355	220	135	80	53	25	2
Wexford	4	1	3	....	4	1	3	....	....	....	....	....	....	....	..

* No returns of deaths.

Digitized by Google

CAUSES OF DEATH.

The classification of causes of death is the same as heretofore adopted in this State. It is the same as has been employed in Massachusetts, and in some other States. It is possible that a better one has been proposed, but a change would involve much labor and great difficulty in comparing results with those in past Reports. Table XIV. exhibits the number and per cent. of deaths from all causes and from each class of causes for the year under consideration, and also for the two previous years. It may be remarked that the deaths returned for 1871 bear a closer relation to those for 1869 than did those for 1870, for which year an unusual number and proportion of deaths were returned as having been caused by zymotic diseases. The particular diseases included in this class may be seen by referring to Table XVI., which exhibits all the details of the classification. For the year 1871 a somewhat greater number of deaths than heretofore were returned from Class IV.,—Developmental Diseases.

TABLE XIV.—*Number of Deaths in Michigan from all Causes, and from each Class of Causes, and Per Cent. of Deaths from each Class of Causes to Deaths from all Causes, for each of the Years 1869, 1870, and 1871.*

CAUSES OF DEATH,—CLASSES.	Michigan for the Year 1869.		Michigan for the Year 1870.		Michigan for the Year 1871.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
All causes	9,145	100.00	10,766	100.00	9,728	100.00
I.—Zymotic diseases	2,518	27.47	3,429	31.85	2,642	27.16
II.—Constitutional diseases	1,734	18.96	2,072	19.24	1,852	19.04
III.—Local diseases	2,334	25.52	2,699	25.06	2,619	26.92
IV.—Developmental diseases	814	8.90	840	7.80	1,002	10.30
V.—Violent deaths	468	5.11	495	4.59	539	5.54
Unknown and unclassified	1,282	14.01	1,231	11.43	1,074	11.04

Digitized by Google

EXHIBIT J.—*Eleven Geographical Divisions of the State, formed for the purpose of facilitating the study of Causes of Death, with a list of Counties included in each Division.*

Upper Peninsula.	North-western.	Northern.	North-eastern.	Western.	Central.	Northern Central.	Bay and Eastern.	South-western.	South-eastern.	Southern Central.
Chippewa.	Benzie.[d]	Antrim.	Alcona.[l]	Kent.	Barry.	Clare.[v]	Bay.[z]	Allegan.[ee]	Macomb.	Branch.
Delta.[a]	Gr. Traverse.[e]	Charlevoix.[j]	Alpena.	Lake.	Clinton.	Isabella.[w]	Huron.[aa]	Berrien.	Monroe.	Calhoun.
Houghton.[b]	Leelanaw.[f]	Cheboygan.	Iosco.[m]	Mason.[n]	Eaton.	Mecosta.[x]	Lapeer.	Cass.[ff]	Oakland.	Hillsdale.
Kewcenaw.*	Manistee.[g]	Emmet.	Presque Isle.	Muskegon.[o]	Genesee.	Midland.[y]	Saginaw.[bb]	Van Buren.	Wayne.[gg]	Jackson.
Mackinac.*	Manitou.[h]	Kalkaska.[k]		Newaygo.[p]	Gratiot.		Sanilac.[cc]			Kalamazoo.
Marquette.	Missaukee.			Oceana.[q]	Ingham.		St. Clair.			Lenawee.
Menominee.[c]	Wexford.[i]			Osceola.[r]	Ionia.[t]		Tuscola.[dd]			St. Joseph.
Ontonagon.				Ottawa.[s]	Livingston.					Washtenaw.[hh]
Schoolcraft.*					Montcalm.[u]					
					Shiawassee.					

No returns of deaths from the following townships:
[a] Masonville, Nahma, and Winona. [b] Hancock and Portage. [c] Menominee and Ingalliston. [d] Benzonia, Colfax, Inland, Platte, and Welden. (See note to Ex. H.) [e] Mayfield. [f] Solon. [g] Morilla and Springdale. [h] Chandler and Galilee. [i] Colfax, Henderson, and Selma. [j] Norwood. [k] Springfield. [l] Alcona. [m] Tawas. [n] Branch, Hamlin, and Pere Marquette. [o] Eggleston. [p] Beaver, Big Prairie, Bridgeton, Denver, Everett, Norwich and Sheridan. [q] Newfield. [r] Burdell, Middle Branch, and Rose Lake. [s] Allendale. [t] Otisco. [u] Ferris and Richland. [v] Surrey and Winterfield. [w] Lincoln and Sherman. [x] Mecosta. [y] Grout, Jasper, Lincoln, Mount Hayley, and Porter. [z] Bangor. [aa] Bingham, Colfax, Meade, Verona, and White Rock. [bb] St. Charles. [cc] Argyle, Buel, Delaware, Elmer, Flynn, Lamotte, Moore, Sanilac, Washington, and Watertown. [dd] Ellington, Millington, and Novesta. [ee] Clyde and Manlius. [ff] La Grange. [gg] Monguagon. [hh] Lyndon.
* No returns of deaths from the county.

Digitized by Google

TABLE XV.—*Exhibiting for the State and each of Eleven Geographical Divisions of the State, the Population June 1, 1870; the Number of Deaths, and the Per Cent. of Deaths for each Division to Total Deaths for the State during the year 1871; the Per Cent. of Deaths in 1871 to Population June 1, 1870; also the Per Cent. of Deaths from each Class of Causes to Deaths from all Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.[b]	Population June 1, 1870.[a]	Deaths 1871.		Per Cent. of all D'ths in '71 to Pop. in '70.[a]	Per Cent. of Deaths from each Class of Causes to Deaths from all Causes.					
		Number.	Per Cent. of Total.		Class I. Zymotic Diseases.	Class II. Constitutional Diseases.	Class III. Local Diseases.	Class IV. Developmental Diseases.	Class V. Violent D'ths.	Unknown and Unclassified.
State	1,148,443	9,728	100.00	.850	27.15	19.04	26.92	10.30	5.54	11.04
Up. Peninsula	31,041	331	3.40	1.066	22.96	13.29	16.31	19.64	9.67	18.13
Northwestern	17,261	189	1.43	.805	35.25	12.95	23.02	8.63	7.19	12.95
Northern	7,349	88	.90	1.197	25.00	11.36	15.91	3.41	3.41	40.91
Northeastern	5,525	48	.49	.869	37.50	18.75	18.75	8.33	10.42	6.25
Western	107,553	913	9.39	.849	29.57	17.42	26.33	8.32	5.04	12.81
North. Central	11,795	144	1.48	1.221	33.33	19.44	22.92	4.17	6.94	13.19
Central	220,506	1,649	16.95	.748	22.62	22.01	29.58	9.40	4.73	11.70
Bay & Eastern	139,323	1,264	12.99	.907	30.30	15.03	23.42	9.02	9.65	12.58
Southwestern	114,416	919	9.45	.803	29.27	18.06	30.03	8.81	3.92	9.90
South. Central	275,081	2,073	21.31	.753	26.72	20.41	31.45	9.17	4.68	7.57
Southeastern	213,593	2,160	22.20	1.011	26.85	20.46	24.17	13.70	4.58	10.23

[a] Except of counties and townships from which no returns of deaths in 1871 were received, for population of which see Exhibit H.
[b] For counties excluded in each division, see Exhibit preceding.

NOTE.—The number of inhabitants deducted from the population of the State for delinquent townships, as shown in Exhibit H, is probably too large, because in some of the delinquent townships it is probable no deaths occurred, but the Supervisors neglected to make an official return stating that fact.

Table XV. will be more valuable after a few years when it can be studied in connection with others for different years. The death-rate is estimated by means of the population June 1, 1870, as was done for the previous year. The population has undoubtedly increased, but the deaths returned were less. In only three divisions does the death-rate appear larger than in the similar table for 1870, those are the Northeastern, Northern Central, and Bay and Eastern. This appearance may be due to rapid increase of population since the census of 1870, the death-rate being computed upon a population smaller than that when the deaths occurred.

Digitized by Google

TABLE XVI.—CAUSES OF DEATH.—NOSOLOGICAL ARRANGEMENT.

Exhibiting the number of Deaths in Michigan, and in each County of the State, during the year 1871, from Specified Causes, Statistically Classified (Stillbirths included).

CAUSES OF DEATH.	STATE.	COUNTIES.																				
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
All causes	9,728	5	278	13	10	164	209	18	274	174	327	135	16	12	28	9	171	23	210	47	207	25	79
Specified causes	8,654	5	238	12	9	151	197	14	259	158	301	117	12	8	13	7	158	13	177	21	187	22	68
CLASSES.																							
I.—Zymotic Diseases	2,642	2	95	4	1	49	98	6	86	37	96	32	6	3	5	1	49	6	30	12	48	3	28
II.—Constitutional Diseases	1,852	2	40	1	1	43	27	2	58	34	59	24	..	1	..	2	35	2	57	8	46	7	14
III.—Local Diseases	2,619	..	70	4	3	42	46	2	82	61	108	46	6	3	..	3	47	4	59	..	66	8	19
IV.—Developmental Diseases	1,002	..	23	..	2	13	10	2	21	13	26	13	..	..	6	..	19	..	11	1	18	3	6
V.—Violent Deaths	539	1	10	3	2	4	16	2	17	8	12	2	..	1	2	1	8	1	20	..	9	1	1
ORDERS.																							
I.—1. Miasmatic Diseases	2,598	2	95	3	1	49	98	5	85	37	94	31	6	3	5	1	49	6	29	11	48	3	27
2. Enthetic Diseases	2	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
3. Dietic Diseases	25	..	....	..	..	....	....	..	1	....	....	1	..	..	..	..	....	..	....	1	....	..	..
4. Parasitic Diseases	17	..	....	1	..	....	....	1	....	....	2	....	..	..	..	..	....	..	1	..	....	..	1

Digitized by Google

II.—1. Diathetic Diseases	475	..	16	..	..	11	3	1	6	7	13	4	..	..	..	..	8	..	14	1	12	4	5
2. Tubercular Diseases	1,377	2	24	1	1	32	24	1	47	27	46	20	..	1	..	2	27	2	43	7	34	3	9
III.—1. Diseases of Nervous System	1,016	..	32	..	2	12	16	..	25	16	42	17	2	1	..	1	16	1	22	..	23	1	10
2. Diseases of Organs of Circulation	289	..	4	..	..	6	3	..	3	7	19	6	..	2	..	..	6	1	6	..	12	..	4
3. Diseases of Respiratory Organs	706	..	21	3	1	13	11	2	29	18	24	14	..	..	..	1	17	2	15	..	17	4	2
4. Diseases of Digestive Organs	432	..	10	1	..	9	15	..	21	11	12	7	3	..	..	1	5	..	10	..	9	1	3
5. Diseases of Urinary Organs	124	..	2	..	..	2	1	..	4	7	10	1	1	..	..	..	2	..	3	..	3	2	..
6. Diseases of Generative Organs	15	..	....	..	..	....	....	..	....	1	....	....	..	..	..	..	....	..	....	..	2	..	..
7. Diseases of Organs of Locomotion	4	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
8. Diseases of Integumentary System	33	..	1	..	..	....	....	..	....	1	1	1	..	..	..	..	1	..	3	..	....	..	..
IV.—1. Developmental Diseases of Children	466	..	12	..	2	6	5	1	8	4	9	6	..	..	..	..	8	..	5	..	5	3	3
2. Developmental Diseases of Adults	164	..	3	..	..	2	3	1	5	5	2	2	..	..	2	..	4	..	4	..	4	..	1
3. Developmental Diseases of Old People	372	..	8	..	..	5	2	..	8	9	15	5	..	..	4	..	7	..	2	1	9	..	2
4. Diseases of Nutrition	....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
V.—1. Accident or Negligence	244	1	4	2	..	4	7	..	8	7	8	....	..	..	..	..	4	1	6	..	2	1	..
2. Battle	....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
3. Homicide	9	..	....	..	..	....	1	..	1	....	....	....	..	..	..	..	....	..	....	..	....	..	..
4. Suicide	40	..	2	..	..	....	2	..	2	....	....	....	..	..	1	..	1	..	1	..	2	..	..
5. Execution	....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
6. Violent Deaths	246	..	4	1	2	....	6	2	6	1	4	2	..	1	1	1	3	..	13	..	5	..	1

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	STATE.	COUNTIES.																					
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
Sudden Deaths (causes unascertained)	8	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Causes not Specified	1,071	--	40	1	1	12	12	4	15	16	26	18	4	4	10	2	13	10	83	26	20	3	11
CLASS I.—Zymotic	2,642	2	95	4	1	49	98	6	86	37	96	82	6	3	5	1	49	6	80	12	48	3	28
I.—ORDER 1. Miasmatic	2,598	2	95	3	1	49	98	5	85	37	94	81	6	3	5	1	49	6	29	11	48	3	27
1. Small-pox	75	--	--	--	--	--	2	1	--	4	1	--	--	--	--	--	--	--	--	--	--	--	--
2. Measles	67	--	1	--	--	4	2	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	2
3. Scarlatina	696	--	21	1	--	15	85	--	24	4	34	--	4	3	4	--	16	3	4	5	19	--	18
4. Diphtheria	129	--	--	--	--	2	1	--	19	1	1	2	--	--	--	--	1	--	3	1	--	--	--
5. Quinsy	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6. Croup	158	--	1	--	--	2	1	1	4	4	4	3	--	--	--	--	2	1	1	2	4	--	1
7. Whooping Cough	68	2	5	--	--	1	5	--	--	--	1	--	--	--	--	--	1	--	2	--	--	--	--
8. Typhus	373	--	17	1	--	8	9	1	9	10	17	9	--	--	--	--	9	1	5	--	10	2	4
9. Erysipelas	86	--	4	--	--	2	2	--	4	1	6	3	--	--	--	--	2	--	1	--	1	1	--

Digitized by Google

10. Metria (Puerperal Fever)	26	--	8	--	--	----	1	--	2	----	----	1	--	--	--	--	2	--	----	--	1	--	--
11. Carbuncle	------	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
12. Influenza [b]	6	--	----	--	--	----	----	--	----	1	----	1	--	--	--	--	----	--	----	--	----		--
13. Dysentery	173	--	8	--	--	6	12	--	8	3	5	4	--	--	--	--	8	--	3	1	2	--	--
14. Diarrhea	216	--	6	--	1	----	16	2	1	2	2	8	1	--	--	--	1	--	1	1	2	--	--
15. Cholera Infantum	129	--	3	--	--	2	2	--	4	3	9	2	1	--	--	--	2	--	----	--	1	--	--
16. Cholera	17	--	----	--	--	----	----	--	2	----	----	----	--	--	--	--	----	--	----	--	----	--	--
17. Ague [c]	138	--	8	--	--	3	4	--	2	2	8	3	--	--	--	1	6	1	1	--	3	--	1
18. Remittent Fever [d]	193	--	18	--	--	----	5	--	5	2	3	----	--	--	--	--	2	--	7	--	3	--	--
19. Rheumatism	51	--	----	1	--	4	1	--	----	----	3	----	--	--	1	--	1	--	1	1	2	--	1
I.—Order 2. Enthetic	2	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
1. Syphilis	2	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
2. Stricture of Urethra	------	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
3. Hydrophobia	------	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
4. Glanders	------	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
I.—Order 3. Dietic	25	--	----	--	--	----	----	--	1	----	----	1	--	--	--	--	----	--	----	1	----	--	--
1. Privation	------	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
2. Purpura and Scurvy	2	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	1	----	--	--
3. Delirium Tremens (Alcoholism)	8	--	----	--	--	----	----	--	1	----	----	1	--	--	--	--	----	--	----	--	----	--	--
4. Intemperance	15	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--

[a] Includes 8 Nervous Fever and 357 Typhoid Fever.
[b] Includes 2 Catarrh in head and 2 Catarrh.
[c] Includes 95 Congestive Chills.
[d] Includes 55 Bilious Fever, 3 Gastric Fever, and 120 Fever.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	STATE.	COUNTIES.																				
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
I.—ORDER 4. Parasitic	17	--	----	1	--	----	----	1	----	----	2	----	--	--	--	--	----	--	1	--	----	--	1
1. Thrush	7	--	----	--	--	----	----	--	----	----	2	----	--	--	--	--	----	--	----	--	----	--	--
2. Worms	10	--	----	1	--	----	----	1	----	----	----	----	--	--	--	--	----	--	1	--	----	--	1
CLASS II.—Constitutional	1,852	2	40	1	1	43	27	2	58	34	59	24	--	1	--	2	35	2	57	8	46	7	14
II.—ORDER 1. Diathetic	475	--	16	--	--	11	3	1	6	7	13	4	--	--	--	--	8	--	14	1	12	4	5
1. Gout	------	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
2. Dropsy and Anæmia [a]	325	--	11	--	--	8	2	--	5	4	8	3	--	--	--	--	6	--	13	1	5	2	4
3. Cancer	106	--	3	--	--	3	----	--	1	2	5	1	--	--	--	--	2	--	1	--	4	1	1
4. Noma (Canker)	35	--	2	--	--	----	----	1	----	1	----	----	--	--	--	--	----	--	----	--	2	1	--
5. Mortification	9	--	----	--	--	----	1	--	----	----	----	----	--	--	--	--	----	--	----	--	1	--	--
II.—ORDER 2. Tubercular	1,377	2	24	1	1	32	24	1	47	27	46	20	--	1	--	2	27	2	43	7	34	3	9
1. Scrofula	41	--	----	--	--	2	1	--	----	2	1	1	--	--	--	--	1	--	3	--	3	1	3
2. Tabes Mesenterica	12	--	----	--	--	1	----	--	----	1	----	----	--	--	--	--	----	--	2	--	----	--	--

Digitized by Google

3. Phthisis (Consumption of Lungs)	1,315	2	24	1	1	29	22	1	46	24	45	10	..	1	..	2	26	2	38	7	31	2	6
4. Hydrocephalus	9	..	....	..	..	....	1	..	1	....	....	....	..	..	..	..	....	..	....	..	....	..	..
CLASS III.—Local Diseases	2,619	..	70	4	3	42	46	2	82	61	108	46	6	3	..	3	47	4	59	..	66	8	19
III.—ORDER 1. Nervous System	1,016	..	32	..	2	12	16	..	25	16	42	17	2	1	..	1	16	1	22	..	28	1	10
1. Cephalitis	216	..	5	..	1	1	11	..	6	4	4	6	..	..	..	..	2	..	5	..	5	..	5
2. Apoplexy	70	..	....	..	..	1	....	..	2	1	3	....	..	..	..	..	....	1	1	..	3	..	..
3. Paralysis	144	..	4	..	..	2	....	..	4	1	9	3	..	..	..	..	2	..	4	..	3	..	..
4. Insanity	16	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	1	..	....	..	..
5. Chorea	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
6. Epilepsy	25	..	....	..	..	....	....	..	1	....	....	....	..	..	..	..	2	..	....	..	1	..	..
7. Tetanus	3	..	....	..	..	....	....	..	....	....	....	....	..	1	..	..	....	..	....	..	....	..	..
8. Convulsions	237	..	9	..	..	4	2	..	....	3	10	3	2	..	..	..	5	..	6	..	3	..	1
9. Brain Diseases	305	..	14	..	1	4	3	..	12	7	16	5	..	..	..	1	5	..	5	..	8	1	4
III.—ORDER 2. Organs of Circulation	289	..	4	..	..	6	3	..	3	7	19	6	..	2	..	..	6	1	6	..	12	..	4
1. Pericarditis	49	..	1	..	..	2	....	..	1	2	4	2	..	..	..	..	1	..	....	..	2	..	4
2. Aneurism	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
3. Heart Diseases	240	..	3	..	..	4	3	..	2	5	15	4	..	2	..	..	5	1	6	..	10	..	..
III.—ORDER 3. Respiratory Organs	706	..	[a] 21	3	1	13	11	2	29	18	24	14	..	..	..	1	17	2	15	..	17	4	2
1. Epistaxis	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
2. Laryngitis	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..

[a] Includes 210 Dropsy.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	STATE.	COUNTIES.																					
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
3. Bronchitis	19	..	1	..	..	....	....	..	1	....	1	....	..	..	..	..	2	..	....	..	....	..	..
4. Pleurisy	26	..	....	..	..	....	....	..	1	1	2	1	..	..	..	..	1	..	....	..	1	..	..
5. Pneumonia	482	..	12	3	1	11	9	1	24	18	13	9	..	..	..	..	12	2	14	..	13	4	1
6. Asthma	17	..	....	..	..	....	....	..	....	1	1	1	..	..	..	..	....	..	1	..	....	..	..
7. Lung Diseases	162	..	8	..	..	2	2	1	3	3	7	3	..	..	..	1	2	..	....	..	3	..	1
III.—ORDER 4. Digestive Organs	482	..	10	1	..	9	15	..	21	11	12	7	3	..	..	1	5	..	10	..	9	1	3
1. Gastritis	25	..	....	..	..	....	....	..	....	1	1	....	1	..	..	..	1	..	....	..	....	..	1
2. Enteritis[a]	184	..	8	..	..	3	5	..	13	5	8	4	2	..	..	1	....	..	4	..	6	1	1
3. Peritonitis	7	..	....	..	..	....	1	..	....	....	....	....	..	..	..	..	1	..	....	..	....	..	..
4. Ascites	3	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
5. Ulceration of Intestines	5	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
6. Hernia	12	..	1	..	..	1	....	..	....	....	1	1	..	..	..	..	....	..	....	..	....	..	..
7. Ileus	5	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
8. Intussusception	2	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	1	..	....	..	..

Digitized by Google

9. Stricture of Intestines	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
10. Fistula	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
11. Stomach Diseases	77	..	2	..	..	8	6	..	1	2	3	1	..	..	..	..	1	..	4	..	....	..	..
12. Pancreas Diseases	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
13. Hepatitis	10	..	....	1	..	....	....	..	1	1	....	1	..	..	..	..	....	..	....	..	....	..	..
14. Jaundice	19	..	1	..	..	1	....	..	....	....	....	....	..	..	..	..	....	..	1	..	2	..	1
15. Liver Diseases	88	..	3	..	..	1	3	..	6	2	4	....	..	..	..	..	2	..	....	..	1	..	..
16. Spleen Diseases	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
III.—Order 5. Urinary Organs	124	..	2	..	..	2	1	..	4	7	10	1	1	..	..	..	2	..	3	..	3	2	..
1. Nephritis	18	..	....	..	..	....	....	..	1	2	1	....	..	..	..	..	....	..	1	..	1	..	..
2. Ischuria	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
3. Nephria (Bright's Disease)	10	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
4. Diabetes	33	..	1	..	..	1	1	..	....	3	3	1	..	..	..	..	....	..	....	..	1	2	..
5. Calculus (Gravel, etc.)	24	..	....	..	..	1	....	..	2	2	3	....	1	..	..	..	1	..	2	..	....	..	..
6. Cystitis	4	..	....	..	..	....	....	..	1	....	....	....	..	..	..	..	....	..	....	..	....	..	..
7. Kidney Disease	40	..	1	..	..	....	....	..	....	....	3	....	..	..	..	..	1	..	....	..	1	..	..
III.—Order 6. Generative Organs	15	..	....	..	..	....	....	..	....	1	....	....	..	..	..	..	....	..	....	..	2	..	..
1. Ovarian Dropsy	4	..	....	..	..	....	....	..	....	1	....	....	..	..	..	..	....	..	....	..	....	..	..
2. Diseases of Uterus	11	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	2	..	..

* Includes 2 Black Vomit and 27 Disease of Bowels.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	State.	Counties.																					
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
III.—ORDER 7. Organs of Locomotion	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1. Arthritis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2. Joint Diseases	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
III.—ORDER 8. Integumentary System	33	--	1	--	--	--	--	--	--	1	1	1	--	--	--	--	1	--	3	--	--	--	--
1. Phlegmon	13	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
2. Ulcer	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3. Skin Diseases	18	--	--	--	--	--	--	--	--	1	--	1	--	--	--	--	1	--	3	--	--	--	--
CLASS IV.—Developmental Diseases	1,002	--	28	--	2	18	10	2	21	18	26	13	--	--	6	--	19	--	11	1	18	3	6
IV.—ORDER 1. Developmental Diseases of Children	466	--	12	--	2	6	5	1	8	4	9	6	--	--	--	--	8	--	5	--	5	3	3
1. Still-born	268	--	9	--	2	3	4	1	7	3	6	6	--	--	--	--	7	--	3	--	2	3	2
2. Premature Birth and Infantile Debility	112	--	3	--	--	3	--	--	1	--	1	--	--	--	--	--	1	--	1	--	3	--	--
3. Cyanosis	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--

Digitized by Google

4. Spina Bifida	----	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
5. Other Malformations	3	--	----	--	--	----	1	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
6. Teething	82	--	----	--	--	----	----	--	----	----	2	----	--	--	--	--	----	--	1	--	----	--	1
IV.—Order 2. Developmental Diseases of Women	164	--	3	--	--	2	3	1	5	5	2	2	--	--	2	--	4	--	4	--	4	--	1
1. Paramenia	4	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	1	--	--
2. Childbirth [a]	160	--	3	--	--	2	3	1	5	5	2	2	--	--	2	--	4	--	4	--	3	--	1
IV.—Order 3. Developmental Diseases of Old People	372	--	8	--	--	5	2	--	8	9	15	5	--	--	4	--	7	--	2	1	9	--	2
1. Old Age	372	--	8	--	--	5	2	--	8	9	15	5	--	--	4	--	7	--	2	1	9	--	2
IV.—Order 4. Diseases of Nutrition	----	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
1. Atrophy and Debility	----	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
Class V.—Violent Deaths	589	1	10	3	2	4	16	2	17	8	12	2	--	1	2	1	8	1	20	--	9	1	1
V.—Order 1. Accident or Negligence	244	1	4	2	--	4	7	--	8	7	8	----	--	--	--	--	4	1	6	--	2	1	--
1. Fractures and Contusions	28	--	----	--	--	1	1	--	1	----	4	----	--	--	--	--	1	--	----	--	----	--	--
2. Wounds	15	--	----	--	--	1	1	--	----	----	----	----	--	--	--	--	----	--	----	--	1	--	--
3. Burns and Scalds	67	--	1	--	--	1	----	--	3	2	----	----	--	--	--	--	1	1	2	--	1	--	--
4. Poison [b]	20	--	1	--	--	----	1	--	1	1	----	----	--	--	--	--	1	--	----	--	----	--	--
5. Drowning	87	1	2	2	--	1	4	--	3	1	3	----	--	--	--	--	1	--	----	--	----	1	--

[a] Includes 14 from Abortion.

[b] Includes 1 from "Skoke Root."

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	STATE.	COUNTIES.																					
		Alcona.	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Eaton.	Emmet.	Genesee.	Gr. Traverse.	Gratiot.
6. Suffocation	9	--	----	--	--	----	----	--	----	----	1	----	--	--	--	--	----	--	3	--	----	--	--
7. Otherwise	18	--	----	--	--	----	----	--	----	3	----	----	--	--	--	--	----	--	1	--	----	--	--
V.—ORDER 2. In Battle	------	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
V.—ORDER 3. Homicide	9	--	----	--	--	----	1	--	1	----	----	----	--	--	--	--	----	--	----	--	----	--	--
V.—ORDER 4. Suicide	40	--	2	--	--	----	2	--	2	----	----	----	--	--	1	--	1	--	1	--	2	--	--
1. Wounds	6	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
2. Poison	8	--	1	--	--	----	2	--	----	----	----	----	--	--	--	--	1	--	----	--	1	--	--
3. Drowning	------	--	----	--	--	----	----	--	----	----	----	----	--	--	--	--	----	--	----	--	----	--	--
4. Hanging	6	--	1	--	--	----	----	--	1	----	----	----	--	--	1	--	----	--	----	--	----	--	--
5. Otherwise, and not specified	20	--	----	--	--	----	----	--	1	----	----	----	--	--	--	--	----	--	1	--	1	--	--

Digitized by Google

V.—Order 5. Execution	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
1. Hanging	.....	..	....	..	..	....	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
V.—Order 6. Violent Deaths, not included above	246	..	4	1	2	....	6	2	6	1	4	2	..	1	1	1	8	..	18	..	5	..	1
Sudden, cause unknown	8	..	....	..	..	1	....	..	....	....	....	....	..	..	..	..	....	..	....	..	....	..	..
Cause not specified [b]	1,071	..	40	1	1	12	12	4	15	16	26	18	4	4	10	2	13	10	33	26	20	3	11

[b] Includes 12 from Cold; 1 General Dropsy; 17 Hemorrhage (part not stated); 16 Inflammation; and 21 from Throat Disease.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
All causes	286	110	106	192	225	28	51	235	248	3	419	..	5	125	55	331	125	..	249	35	2	154	22	46
Specified causes	273	92	96	168	191	21	43	217	223	2	380	..	5	109	49	307	103	..	210	31	1	134	19	42
CLASSES.																								
I.—Zymotic Diseases	89	25	27	32	35	9	17	56	79	..	125	..	1	30	27	91	21	..	70	13	..	38	3	19
II.—Constitutional Diseases	60	19	11	40	47	6	16	51	59	..	81	..	1	26	3	58	33	..	44	3	1	17	2	7
III.—Local Diseases	80	23	12	70	73	3	6	75	61	2	115	..	3	34	11	106	34	..	54	9	..	23	4	12
IV.—Developmental Diseases	29	11	15	23	26	1	1	23	13	..	42	..	..	14	5	33	12	..	30	2	..	41	7	2
V.—Violent Deaths	15	14	31	3	10	2	3	12	11	..	17	..	..	5	3	19	3	..	12	4	..	15	3	2
ORDERS.																								
I.—1. Miasmatic Diseases	86	25	26	32	34	9	17	56	79	..	123	..	1	30	27	88	21	..	66	13	..	36	3	19
2. Enthetic Diseases	....	....	....	....	....	..	..	....	....	..	1	..	..	....	..	....	....	..	....	..	..	....	..	..
3. Dietic Diseases	....	....	1	....	....	..	..	....	....	..	....	..	..	....	..	2	....	..	3	..	..	2	..	..
4. Parasitic Diseases	3	....	....	....	1	..	..	....	....	..	1	..	..	....	..	1	....	..	1	..	..	....	..	..

Digitized by Google

II.—1. Diathetic Diseases	16	10	3	13	7	3	1	15	10	..	17	..	..	5	..	18	10	..	8	1	..	6	..	2
2. Tubercular Diseases	44	9	8	27	40	3	15	36	49	..	64	..	1	21	3	40	23	..	36	2	1	11	2	5
III.—1. Diseases of Nervous System	36	16	3	23	30	1	..	22	26	..	48	..	1	7	5	41	12	..	26	3	..	16	1	4
2. Diseases of Organs of Circulation	7	2	....	12	9	..	..	4	6	..	13	..	1	6	1	15	2	..	5	3	..	3	..	
3. Diseases of Respiratory Organs	20	2	4	16	14	..	3	26	11	1	26	..	..	12	3	28	14	..	14	1	..	1	1	3
4. Diseases of Digestive Organs	12	2	2	16	17	2	2	13	12	1	18	..	1	7	1	17	5	..	6	1	..	3	1	3
5. Diseases of Urinary Organs	4	....	3	2	2	..	1	6	5	..	8	..	..	1	..	4	1	..	1	..	..	....	..	..
6. Diseases of Generative Organs	....	....	....	....	....	..	..	2	....	..	1	..	..	....	1	1	....	..	2	..	..	....	..	..
7. Diseases of Organs of Locomotion	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	1	..	....	..	..
8. Diseases of Integumentary System	1	1	....	1	1	..	..	2	1	..	1	..	..	1	..	...	....	..	....	..	..	....	1	..
IV.—1. Developmental Diseases of Children	8	9	8	13	16	..	1	3	2	..	20	..	..	3	4	10	3	..	14	..	..	37	4	1
2. Developmental Diseases of Adults	6	2	4	2	5	1	..	1	5	..	8	..	..	3	..	10	3	..	4	1	..	2	2	..
3. Developmental Diseases of Old People	15	....	3	8	5	..	..	19	6	..	14	..	..	8	1	13	6	..	12	1	..	2	1	1
4. Diseases of Nutrition	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
V.—1. Accident or Negligence	4	7	17	1	4	2	1	3	6	..	9	..	..	1	1	7	1	..	4	2	..	6	..	..
2. Battle	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
3. Homicide	....	....	....	....	1	..	1	....	....	..	....	..	..	....	..	....	....	..	....	2	..	....	..	..
4. Suicide	2	....	1	....	....	..	..	....	2	..	....	..	..	1	..	1	....	..	2	..	..	1	..	..
5. Execution	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
6. Violent Deaths	9	7	13	2	5	..	1	9	3	..	8	..	..	3	2	11	2	..	6	..	..	8	3	2

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																						
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
Sudden Deaths (causes unascertained)	----	----	----	----	----	--	--	----	----	--	----	--	--	----	--	----	----	--	----	--	--	----	--	--
Causes not Specified	18	18	10	24	34	2	8	18	25	1	39	--	--	16	6	24	22	--	39	4	1	20	3	4
CLASS 1.—Zymotic	89	25	27	32	35	9	17	56	79	--	125	--	1	30	27	91	21	--	70	13	--	38	3	19
I.—ORDER 1. Miasmatic	86	25	26	32	34	9	17	56	79	--	123	--	1	30	27	88	21	--	66	13	--	36	3	19
1. Small-pox	----	----	----	2	1	--	--	----	----	--	11	--	--	----	--	----	----	--	4	--	--	7	--	--
2. Measles	2	1	----	----	6	--	--	1	1	--	1	--	--	2	--	1	----	--	2	--	--	----	--	--
3. Scarlatina	28	1	22	3	7	1	1	9	33	--	28	--	1	2	22	29	4	--	23	3	--	10	--	4
4. Diphtheria	11	----	----	1	----	--	--	3	4	--	2	--	--	----	3	7	----	--	4	--	--	1	--	--
5. Quinsy	----	----	----	----	----	1	--	----	----	--	----	--	--	----	--	----	----	--	----	--	--	----	--	--
6. Croup	7	1	1	2	2	--	--	6	5	--	3	--	--	6	-	4	----	--	3	1	--	----	--	1
7. Whooping Cough	----	1	----	2	----	--	--	4	----	--	9	--	--	--	--	1	1	--	----	1	--	2	--	--
8. Typhus	21	2	1	5	7	1	2	10	13	--	10	--	--	2	--	16	3	--	9	3	--	6	1	3
9. Erysipelas	3	1	1	3	1	3	--	2	4	--	2	--	--	5	--	3	----	--	----	1	--	----	--	3

Digitized by Google

10. Metria (Puerperal Fever)	1	....	....	....	....	..	..	....	....	..	8	..	..	1	2	1	1	..	8	..	..	....	..	..
11. Carbuncle	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
12. Influenza [b]	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	1	1	..	....	..	..	....	..	..
13. Dysentery	5	2	....	7	1	..	5	8	2	..	11	..	..	6	..	8	8	..	1	..	..	4	..	5
14. Diarrhea	2	2	....	1	1	..	..	5	2	..	11	..	..	2	..	1	2	..	5	1	..	1	..	8
15. Cholera Infantum	8	1	....	1	1	..	7	1	8	..	18	..	..	1	..	12	2	..	4	..	..	1	..	..
16. Cholera	1	....	1	....	....	..	..	1	....	..	....	..	..	....	..	....	....	..	....	1	..	1	..	..
17. Ague [c]	4	....	....	8	2	..	..	2	6	..	18	..	..	1	..	5	1	..	1	..	..	....	1	..
18. Remittent Fever [d]	8	11	....	2	8	8	1	6	4	..	5	..	..	2	..	4	2	..	6	2	..	2	..	..
19. Rheumatism	....	2	....	....	2	..	1	8	2	..	1	..	..	....	..	....	1	..	1	..	..	1	1	..
I.—Order 2. Enthetic	....	....	....	....	....	..	..	....	....	..	1	..	..	....	..	....	....	..	....	..	..	....	..	..
1. Syphilis	....	....	....	....	....	..	..	....	....	..	1	..	..	....	..	....	....	..	....	..	..	....	..	..
2. Stricture of Urethra	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
3. Hydrophobia	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
4. Glanders	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
I.—Order 3. Dietic	....	....	1	....	....	..	..	....	....	..	....	..	..	....	..	2	....	..	3	..	..	2	..	..
1. Privation	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
2. Purpura and Scurvy	....	....	....	....	....	..	.	....	....	..	....	..	..	....	..	1	....	..	....	..	..	....	..	..
3. Delirium Tremens (Alcoholism)	....	....	1	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	1	..	..	1	..	..
4. Intemperance	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	1	....	..	2	..	..	1	..	..

[a] Total for State includes 8 from Nervous Fever; and 857 Typhoid Fever. [b] Total for State includes 2 from Catarrh in Head; and 2 Catarrh.
[c] Total for State includes 95 from Congestive Chills. [d] Total for State includes 55 from Bilious Fever; 3 Gastric Fever; and 120 Fever.

Digitized by Google

TABLE XVI.—Continued.—*Causes of Death, Classified.*

CAUSES OF DEATH.	Counties.																						
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
I.—Order 4. Parasitic	3	....	....	....	1	..	..	....	....	..	1	..	..	....	..	1	....	..	1	..	..	....	..	..
1. Thrush	2	....	....	....	1	..	..	....	....	..	1	..	..	....	..	1	....	..	....	..	..	....	..	..
2. Worms	1	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	1	..	..	....	..	..
Class II.—Constitutional	60	19	11	40	47	6	16	51	59	..	81	..	1	26	3	58	33	..	44	3	1	17	2	7
II.—Order 1. Diathetic	16	10	8	18	7	3	1	15	10	..	17	..	..	5	..	18	10	..	8	1	..	6	..	2
1. Gout	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
2. Dropsy and Anæmia	8	9	1	6	4	..	..	12	8	..	10	..	..	2	..	8	7	..	6	1	..	4	..	2
3. Cancer	7	1	1	5	2	..	1	1	2	..	5	..	..	2	..	9	3	..	2	..	..	....	..	..
4. Noma (Canker)	....	....	1	2	1	3	..	1	....	..	1	..	..	1	.	1	....	..	....	..	..	2	..	..
5. Mortification	1	....	....	....	....	..	..	1	....	..	1	..	..	....	..	....	....	..	....	..	..	....	..	..
II.—Order 2. Tubercular	44	9	8	27	40	3	15	36	49	..	64	..	1	21	3	40	23	..	36	2	1	11	2	5
1. Scrofula	1	1	....	1	2	..	..	1	....	..	2	..	..	....	1	....	....	..	....	..	..	....	..	..
2. Tabes Mesenterica	4	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	2	..	..	....	..	..

Digitized by Google

3. Phthisis (Consumption of Lungs)	39	6	8	25	37	3	15	32	49	..	62	..	1	21	2	40	23	..	34	2	1	11	2	5
4. Hydrocephalus	....	....	....	1	1	..	..	3	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
CLASS III.—Local Diseases	80	23	12	70	73	3	6	75	61	2	115	..	3	34	11	106	34	..	54	9	..	23	4	12
III.—ORDER 1. Nervous System	36	16	3	23	30	1	..	22	26	..	48	..	1	7	5	41	12	..	26	3	..	16	1	4
1. Cephalitis	6	5	....	4	8	..	..	1	....	..	13	..	..	2	2	6	1	..	6	..	..	11	..	2
2. Apoplexy	5	1	....	....	4	..	..	5	3	..	2	..	..	....	..	3	2	..	2	..	..	....	..	..
3. Paralysis	10	....	1	3	3	..	..	3	8	..	8	..	..	1	..	10	3	..	5	..	..	....	..	..
4. Insanity	....	....	....	....	....	..	..	1	1	..	....	..	..	....	..	....	....	..	2	..	..	....	..	..
5. Chorea	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
6. Epilepsy	1	....	....	1	2	..	..	....	....	..	1	..	..	....	..	2	....	..	2	..	..	....	..	..
7. Tetanus	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	1	..	..
8. Convulsions	4	8	2	4	2	..	..	2	3	..	10	..	..	2	1	9	1	..	7	3	..	1	1	..
9. Brain Diseases	10	2	....	11	11	1	..	10	11	..	14	..	1	2	2	11	5	..	2	..	..	3	..	2
III.—ORDER 2. Organs of Circulation	7	2	....	12	9	..	..	4	6	..	13	..	1	6	1	15	2	..	5	3	..	3	..	2
1. Pericarditis	2	....	....	3	1	..	..	....	....	..	3	..	..	1	..	3	....	..	3	..	..	....	..	..
2. Aneurism	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
3. Heart Diseases	5	2	....	9	8	..	..	4	6	..	10	..	1	5	1	12	2	..	2	3	..	3	..	2
III.—ORDER 3. Respiratory Organs	20	2	4	16	14	..	3	26	11	1	26	..	..	12	3	28	14	..	14	1	..	1	1	3
1. Epistaxis	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..

* Total for State includes 210 deaths from Dropsy.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
2. Laryngitis	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
3. Bronchitis	....	....	....	1	....	..	1	....	....	..	2	..	..	....	..	....	....	..	....	..	..	....	..	..
4. Pleurisy	1	....	....	....	1	..	..	....	3	..	1	..	..	....	..	2	....	..	1	..	..	....	..	..
5. Pneumonia	12	1	2	11	9	..	1	16	6	..	17	..	..	11	3	22	12	..	12	1	..	1	1	2
6. Asthma	....	....	....	....	....	..	..	2	1	..	....	..	..	1	..	....	....	..	....	..	..	....	..	..
7. Lung Diseases	7	1	2	4	4	..	1	8	1	1	6	..	..	....	..	4	2	..	1	..	..	....	..	1
III.—ORDER 4. Digestive Organs	12	2	2	16	17	2	2	13	12	1	18	..	1	7	1	17	5	..	6	1	..	3	1	3
1. Gastritis	2	....	....	1	5	..	..	....	....	..	....	..	..	....	..	2	2	..	1	..	..	....	..	..
2. Enteritis	1	....	1	6	7	1	1	5	6	1	8	..	1	3	..	6	....	..	3	..	..	3	1	2
3. Peritonitis	....	....	....	....	....	..	..	1	2	..	....	..	..	....	..	....	....	..	1	..	..	....	..	..
4. Ascites	1	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
5. Ulceration of Intestines	1	....	....	....	....	..	..	....	....	..	1	..	..	....	..	....	....	..	....	..	..	....	..	..
6. Hernia	....	....	1	1	....	..	..	....	....	..	....	..	..	1	1	1	....	..	....	..	..	....	..	..
7. Ileus	1	....	....	....	....	1	..	....	....	..	1	..	..	1	..	....	....	..	....	..	..	....	..	..

Digitized by Google

8. Intussusception	1	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
9. Stricture of Intestines	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	.	..	....	..	..
10. Fistula	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
11. Stomach Diseases	1	2	....	5	....	..	..	4	2	..	5	..	..	....	..	3	2	..	....	..	..	....	..	1
12. Pancreas Diseases	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
13. Hepatitis	....	....	....	1	....	..	..	2	....	..	....	..	..	....	..	....	....	..	....	1	..	....	..	..
14. Jaundice	1	....	....	....	2	..	..	1	....	..	....	..	..	....	..	1	....	..	....	..	..	....	..	..
15. Liver Diseases	3	....	....	2	3	..	1	....	2	..	3	..	..	2	..	4	1	..	1	..	..	....	..	..
16. Spleen Diseases	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
III.—Order 5. Urinary Organs	4	....	3	2	2	..	1	6	5	..	8	..	..	1	..	4	1	..	1	..	..	....	..	..
1. Nephritis	....	....	1	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
2. Ischuria	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
3. Nephria (Bright's Disease)	1	....	....	....	....	..	..	1	1	..	1	..	..	....	..	1	....	..	....	..	..	....	..	..
4. Diabetes	3	....	1	....	....	..	..	....	1	..	1	..	..	....	..	1	....	..	....	..	..	....	..	..
5. Calculus (Gravel, etc.)	....	....	1	....	....	..	..	1	....	..	....	..	..	....	..	....	1	..	1	..	..	....	..	..
6. Cystitis	....	....	....	1	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
7. Kidney Disease	....	....	....	1	2	..	1	4	3	..	6	..	..	1	..	2	....	..	....	..	..	....	..	..
III.—Order 6. Generative Organs	....	....	....	....	....	..	..	2	....	..	1	..	..	....	1	1	....	..	2	..	..	....	..	..
1. Ovarian Dropsy	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	1	..	..	....	..	..
2. Diseases of Uterus	....	....	....	....	....	..	..	2	....	..	1	..	..	....	1	1	....	..	1	..	..	....	..	..

* Total for State includes 2 from Black Vomit and 27 from Disease of Bowels.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																								
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
III.—ORDER 7. Organs of Locomotion	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	1	..	....	..	..
1. Anthritis	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
2. Joint Diseases	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	1	..	....	..	..
III.—ORDER 8. Integumentary System	1	1	....	1	1	..	..	2	1	..	1	..	..	1	..	....	....	..	....	..	..	....	1	..
1. Phlegmon	....	....	....	....	....	..	..	....	1	..	....	..	..	....	..	....	....	..	....	..	..	....	1	..
2. Ulcer	....	....	....	1	....	..	..	....	....	..	1	..	..	....	..	....	....	..	....	..	..	....	..	..
3. Skin Diseases	1	1	....	....	1	..	..	2	....	..	....	..	..	1	..	....	....	..	....	..	..	....	..	..
CLASS IV.—Developmental Diseases	29	11	15	28	26	1	1	28	18	..	42	..	..	14	5	33	12	..	30	2	..	41	7	2
IV.—ORDER 1. Developmental Diseases of Children	8	9	8	18	16	..	1	8	2	..	20	..	..	8	4	10	8	..	14	..	..	37	4	1
1. Still-born	5	8	8	12	12	..	1	8	2	..	14	..	..	8	2	6	2	..	9	..	..	25	3	..
2. Premature Birth and Infantile Debility	3	4	5	....	4	..	..	....	....	..	2	..	..	....	1	2	1	..	4	..	..	6	..	1
3. Cyanosis	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..

Digitized by Google

4. Spina Bifida	----	----	----	----	----	--	--	----	----	--	----	--	--	----	--	----	----	--	----	--	--	----	--	--
5. Other Malformations	----	----	----	----	----	--	--	----	----	--	1	--	--	----	--	----	----	--	----	--	--	----	--	--
6. Teething	----	2	----	1	----	--	--	----	----	--	3	--	--	----	1	2	----	--	1	--	--	6	1	--
IV.—Order 2. Developmental Diseases of Women	6	2	4	2	5	1	--	1	5	--	8	--	--	3	--	10	3	--	4	1	--	2	2	--
1. Paramenia	----	----	----	----	----	--	--	----	----	--	----	--	--	1	--	----	----	--	----	--	--	----	--	--
2. Childbirth [a]	6	2	4	2	5	1	--	1	5	--	8	--	--	2	--	10	3	--	4	1	--	2	2	--
IV.—Order 3. Developmental Diseases of Old People	15	----	3	8	5	--	--	19	6	--	14	--	--	8	1	13	6	--	12	1	--	2	1	1
1. Old Age	15	----	3	8	5	--	--	19	6	--	14	--	--	8	1	13	6	--	12	1	--	2	1	1
IV.—Order 4. Diseases of Nutrition	----	----	----	----	----	--	--	----	----	--	----	--	--	----	--	----	----	--	----	--	--	----	--	--
1. Atrophy and Debility	----	----	----	----	----	--	--	----	----	--	----	--	--	----	--	----	----	--	----	--	--	----	--	--
Class V.—Violent Deaths	15	14	31	8	10	2	3	12	11	--	17	--	--	5	3	19	3	--	12	4	--	15	3	2
V.—Order 1. Accident or Negligence	4	7	17	1	4	2	1	3	6	--	9	--	--	1	1	7	1	--	4	2	--	6	--	--
1. Fractures and Contusions	1	1	----	1	----	--	--	----	1	--	2	--	--	1	--	2	----	--	1	--	--	1	--	--
2. Wounds	----	----	----	----	1	1	--	----	----	--	1	--	--	----	--	----	----	--	----	--	--	----	--	--
3. Burns and Scalds	2	----	14	----	1	--	--	1	2	--	2	--	--	----	1	3	1	--	1	--	--	2	--	--
4. Poison [b]	----	----	----	----	----	--	--	----	2	--	1	--	--	----	--	----	----	--	----	--	--	----	--	--
5. Drowning	1	6	2	----	2	1	--	2	1	--	3	--	--	----	--	2	----	--	2	2	--	----	--	--

[a] Total for State includes 14 from Abortion.

[b] Total for State includes 1 from "Skoke Root."

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							
	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Ioseo.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
6. Suffocation	....	....	1	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
7. Otherwise	....	....	....	....	....	..	1	....	....	..	....	..	..	....	..	....	....	..	....	..	..	8	..	..
V.—ORDER 2. In Battle	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
V.—ORDER 3. Homicide	....	....	....	....	1	..	1	....	....	..	....	..	..	....	..	....	....	..	....	2	..	....	..	..
V.—ORDER 4. Suicide	2	....	1	....	....	..	..	....	2	..	....	..	..	1	..	1	....	..	2	..	..	1	..	..
1. Wounds	....	....	....	....	....	..	..	....	....	..	....	..	..	1	..	....	....	..	1	..	..	....	..	..
2. Poison	1	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
3. Drowning	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..
4. Hanging	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	1	..	..
5. Otherwise, and not specified	1	....	1	....	....	..	..	....	2	..	....	..	..	....	..	1	....	..	1	..	..	....	..	..
V.—ORDER 5. Execution	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	.	....	..	..
1. Hanging	....	....	....	....	....	..	..	....	....	..	....	..	..	....	..	....	....	..	....	..	..	....	..	..

Digitized by Google

V.—ORDER 6. Violent Deaths, not included above	9	7	13	2	5	--	1	9	8	--	8	--	--	8	2	11	2	--	6	--	--	8	3	2
Sudden, cause unknown	----	----	----	----	----	--	--	----	----	--	----	--	--	----	--	----	----	--	----	--	--	----	--	--
Cause not specified [a]	13	16	10	24	34	2	8	18	25	1	39	--	--	16	6	24	22	--	39	4	1	20	3	4

[a] Total for State includes 13 from Cold; 1 General Dropsy; 17 Hemorrhage (part not stated); 16 Inflammation; and 21 from Throat Disease.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
All causes	3	38	--	202	121	136	29	265	70	18	26	206	7	336	73	--	155	334	175	81	232	297	1444	4
Specified causes	3	33	--	179	109	120	19	235	58	16	19	176	7	285	63	--	144	287	158	68	214	279	1315	4
CLASSES.																								
I.—Zymotic Diseases	1	11	--	54	52	51	2	42	23	1	8	57	3	101	11	--	29	103	42	18	56	64	414	--
II.—Constitutional Diseases	--	3	--	51	17	20	8	70	14	6	2	31	--	47	18	--	31	41	37	20	49	65	277	2
III.—Local Diseases	--	12	--	42	25	35	6	88	14	4	6	62	1	87	19	--	52	77	56	21	78	105	388	2
IV.—Developmental Diseases	2	3	--	18	7	5	1	21	4	5	1	16	3	21	10	--	20	37	16	7	24	32	227	--
V.—Violent Deaths	--	4	--	14	8	9	2	14	3	--	2	10	--	29	5	--	12	29	7	7	7	18	59	--
ORDERS.																								
I.—1. Miasmatic Diseases	1	11	--	54	52	51	2	41	23	1	7	56	3	101	10	--	29	102	42	18	56	62	402	--
2. Enthetic Diseases	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
3. Dietic Diseases	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	1	--	--	--	2	9	--
4. Parasitic Diseases	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	2	--

Digitized by Google

II.—1. Diathetic Diseases	..	1	..	20	4	6	1	26	8	..	2	4	..	8	5	..	9	9	9	8	18	16	77	2
2. Tubercular Diseases	..	2	..	31	13	14	7	47	11	6	..	27	..	39	13	..	22	32	28	12	31	49	200	..
III.—1. Diseases of Nervous System	..	5	..	12	11	18	8	26	4	8	2	26	..	41	6	..	10	30	21	9	28	29	171	1
2. Diseases of Organs of Circulation	..	2	..	6	1	2	..	13	..	..	..	2	..	6	2	..	8	5	6	4	10	14	38	..
3. Diseases of Respiratory Organs	..	2	..	14	7	7	1	22	5	1	8	23	1	26	5	..	24	22	19	2	18	24	86	..
4. Diseases of Digestive Organs	..	3	..	8	5	7	2	19	2	..	..	9	..	11	4	..	7	18	8	5	11	24	33	1
5. Diseases of Urinary Organs	..	..	..	....	1	1	..	6	3	..	..	2	..	3	2	..	2	4	....	..	7	11	6	..
6. Diseases of Generative Organs	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	1	1	....	..	....	1	2	..
7. Diseases of Organs of Locomotion	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	....	....	....	..	2	1	....	..
8. Diseases of Integumentary System	..	..	..	2	....	....	..	2	..	..	1	....	..	....	..	..	....	2	2	1	2	1	2	..
IV.—1. Developmental Diseases of Children	2	2	..	9	2	2	..	6	2	4	..	5	2	6	..	..	6	15	5	3	8	13	141	..
2. Developmental Diseases of Adults	..	1	..	3	1	1	1	6	1	..	..	3	..	5	7	..	4	2	3	2	4	4	19	..
3. Developmental Diseases of Old People	..	..	..	6	4	2	..	9	1	1	1	8	1	10	3	..	10	20	8	2	12	15	67	..
4. Diseases of Nutrition	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	....	....	..	..	....	....	....	..
V.—1. Accident or Negligence	..	..	..	4	4	5	..	9	..	..	1	4	..	19	2	..	3	11	3	1	3	3	41	..
2. Battle	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	....	....	....	..	....	....	....	..
3. Homicide	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	....	1	....	..	....	....	2	..
4. Suicide	..	..	..	1	....	....	..	1	1	..	..	1	..	3	..	..	2	1	2	1	1	2	3	..
5. Execution	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	....	....	....	..	....	....	....	..
6. Violent Deaths	..	4	..	9	4	4	2	4	2	..	1	5	..	7	3	..	7	16	2	5	3	8	13	..

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
Sudden Deaths (causes unascertained)	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	....	....	....	..	....	....	2	..
Causes not Specified	..	5	..	23	12	16	10	30	12	2	7	30	..	51	10	..	11	47	17	18	18	18	127	..
CLASS I.—Zymotic	1	11	..	54	52	51	2	42	23	1	8	57	3	101	11	..	29	103	42	13	56	64	414	..
I.—ORDER 1. Miasmatic	1	11	..	54	52	51	2	41	23	1	7	56	3	101	10	..	29	102	42	13	56	62	402	..
1. Small-pox	..	..	..	1	....	2	..	1	13	..	..	....	..	....	5	..	....	6	3	1	....	1	9	..
2. Measles	..	..	..	....	3	....	..	1	..	..	..	1	..	....	..	..	....	....	2	..	....	....	32	..
3. Scarlatina	..	1	..	20	17	15	..	8	2	..	1	9	..	33	2	..	4	12	9	1	16	23	87	..
4. Diphtheria	..	..	..	4	....	5	..	3	..	..	..	2	..	5	..	..	2	20	1	..	1	5	14	..
5. Quinsy	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	1	....	....	..	....	....	....	..
6. Croup	..	..	..	6	3	....	..	....	1	..	..	5	..	5	..	..	3	16	3	1	....	4	33	..
7. Whooping Cough	..	1	..	....	4	2	..	....	..	..	..	1	..	2	..	..	....	1	2	..	1	1	15	..
8. Typhus	1	4	..	4	8	7	..	9	..	..	1	15	3	5	2	..	3	9	11	4	9	9	42	..
9. Erysipelas	..	..	..	1	3	2	..	3	1	..	..	2	..	....	..	..	2	4	1	1	1	1	5	..

Digitized by Google

10. Metria (Puerperal Fever)	--	--	--	----	1	----	--	----	--	--	--	----	--	----	--	--	----	1	----	--	1	1	----	--
11. Carbuncle	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
12. Influenza [b]	--	--	--	----	----	----	--	----	1	--	--	----	--	----	--	--	----	----	1	--	----	----	----	--
13. Dysentery	--	5	--	4	1	2	--	3	1	--	3	7	--	12	--	--	5	----	----	1	9	2	5	--
14. Diarrhea	--	--	--	1	----	5	1	----	--	--	1	1	--	17	--	--	1	3	----	1	2	3	102	--
15. Cholera Infantum	--	--	--	2	4	----	--	2	--	--	--	----	--	9	--	--	2	6	3	1	5	----	16	--
16. Cholera	--	--	--	2	----	----	--	1	--	--	--	----	--	----	1	--	----	1	----	--	----	----	5	--
17. Ague [c]	--	--	--	2	5	6	--	4	--	--	1	5	--	7	--	--	3	4	1	2	7	5	4	--
18. Remittent Fever [d]	--	--	--	7	2	4	1	4	4	1	--	7	--	6	--	--	2	16	4	--	2	4	28	--
19. Rheumatism	--	--	--	----	1	1	--	2	--	--	--	1	--	----	--	--	1	3	1	--	2	3	5	--
I.—Order 2. Enthetic	--	--	-	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	1	--
1. Syphilis	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	1	--
2. Stricture of Urethra	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
3. Hydrophobia	--	--	-	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
4. Glanders	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
I.—Order 3. Dietic	--	--	--	----	----	----	--	1	--	--	1	----	--	----	--	--	----	1	----	--	----	2	9	--
1. Privation	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
2. Purpura and Scurvy	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
3. Delirium Tremens (Alcoholism)	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	1	2	--
4. Intemperance	--	--	--	----	----	----	--	1	--	--	1	----	--	----	--	--	----	1	----	--	----	1	7	--

[a] Total for State includes 8 from Nervous Fever; and 357 Typhoid Fever. [b] Total for State includes 2 from Catarrh in Head; and 2 Catarrh.
[c] Total for State includes 95 from Congestive Chills. [d] Total for State includes 55 from Bilious Fever; 3 Gastric Fever; and 120 Fever.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
I.—ORDER 4. Parasitic	..	..	..	....	....	....	..	....	..	..	..	1	..	....	1	..	....	....	....	..	....	....	2	..
1. Thrush	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	....	....	....	..	....	....	....	..
2. Worms	..	..	..	....	....	....	..	....	..	..	..	1	..	....	1	..	....	....	....	..	....	....	2	..
CLASS II.—Constitutional	..	3	..	51	17	20	8	70	14	6	2	31	..	47	18	..	31	41	37	20	49	65	277	2
II.—ORDER 1. Diathetic	..	1	..	20	4	6	1	23	3	..	2	4	..	8	5	..	9	9	9	8	18	16	77	2
1. Gout	..	..	..	....	....	....	..	....	..	..	..	....	..	....	..	..	....	....	....	..	....	....	....	..
2. Dropsy and Anæmia	..	..	..	16	1	5	..	11	1	..	1	4	..	4	3	..	6	3	6	7	17	12	67	1
3. Cancer	..	..	..	2	....	1	1	11	1	..	1	....	..	1	..	..	2	5	3	1	....	4	8	..
4. Noma (Canker)	..	1	..	1	3	..	..	....	1	..	..	....	..	3	1	..	1	1	....	..	....	....	2	1
5. Mortification	..	..	..	1	....	....	..	1	..	..	..	....	..	....	1	..	....	....	....	..	1	....	....	..
II.—ORDER 2. Tubercular	..	2	..	31	13	14	7	47	11	6	..	27	..	39	18	..	22	32	28	12	31	49	200	..
1. Scrofula	..	..	..	1	....	1	..	....	..	..	..	1	..	2	..	..	1	....	2	1	1	2	2	..
2. Tabes Mesenterica	..	..	..	....	....	1	..	....	..	..	..	....	..	....	..	..	....	....	....	..	....	....	1	..

Digitized by Google

3. Phthisis (Consumption of Lungs)	--	2	--	30	13	12	7	47	11	6	--	26	--	37	13	--	21	32	26	11	30	46	196	--
4. Hydrocephalus	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	1	1	--
CLASS III.—Local Diseases	--	12	--	42	25	35	6	88	14	4	6	62	1	87	19	--	52	77	56	21	78	105	338	2
III.—ORDER 1. Nervous System	--	5	--	12	11	18	3	26	4	3	2	26	--	41	6	--	10	30	21	9	28	29	171	1
1. Cephalitis	--	3	--	3	2	4	--	3	2	--	--	12	--	5	1	--	1	3	1	3	6	7	37	1
2. Apoplexy	--	--	--	----	2	2	--	5	--	1	--	1	--	1	--	--	----	3	----	1	----	4	11	--
3. Paralysis	--	--	--	1	1	1	--	5	--	1	--	----	--	3	2	--	----	4	8	1	5	10	15	--
4. Insanity	--	--	--	----	----	----	--	1	--	--	--	----	--	1	--	--	----	2	----	--	1	2	4	--
5. Chorea	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
6. Epilepsy	--	--	--	1	----	----	--	----	--	--	--	----	--	5	--	--	1	1	----	1	----	----	3	--
7. Tetanus	--	--	--	----	1	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
8. Convulsions	--	1	--	3	3	5	2	2	2	1	1	6	--	11	--	--	4	12	4	1	4	2	65	--
9. Brain Diseases	--	1	--	4	2	6	1	10	--	--	1	7	--	15	3	--	4	5	8	2	12	4	86	--
III.—ORDER 2. Organs of Circulation	--	2	--	6	1	2	--	13	--	--	--	2	--	6	2	--	8	5	6	4	10	14	38	--
1. Pericarditis	--	--	--	----	----	----	--	1	--	--	--	----	--	----	--	--	1	1	1	--	5	4	1	--
2. Aneurism	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
3. Heart Diseases	--	2	--	6	1	2	--	12	--	--	--	2	--	6	2	--	7	4	5	4	5	10	37	--
III.—ORDER 3. Respiratory Organs	--	2	--	14	7	7	1	22	5	1	3	23	1	26	5	--	24	22	19	2	18	24	86	--
1. Epistaxis	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--

* Total for State includes 210 from Dropsy.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
2. Laryngitis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3. Bronchitis	--	--	--	--	--	--	--	--	1	--	--	2	--	--	--	--	1	2	1	1	--	--	2	--
4. Pleurisy	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	--	1	2	1	--	--	4	--	--
5. Pneumonia	--	1	--	10	4	6	1	15	4	1	1	17	--	18	2	--	16	12	11	1	16	18	51	--
6. Asthma	--	--	--	1	--	--	--	1	--	--	1	--	--	1	--	--	--	2	--	--	--	1	2	--
7. Lung Diseases	--	1	--	3	3	1	--	5	--	--	1	3	1	7	3	--	6	4	6	--	2	6	31	--
III.—ORDER 4. Digestive Organs	--	3	--	8	5	7	2	19	2	--	--	9	--	11	4	--	7	13	3	5	11	24	33	1
1. Gastritis	--	--	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	3	1	1	--
2. Enteritis a	--	--	--	2	1	4	1	8	1	--	--	5	--	5	3	--	3	4	3	2	3	15	17	--
3. Peritonitis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
4. Ascites	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--
5. Ulceration of Intestines	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	1	--	--	--	--	--
6. Hernia	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1	--
7. Ileus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--

Digitized by Google

8. Intussusception	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
9. Stricture of Intestines	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
10. Fistula	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
11. Stomach Diseases	--	1	--	1	1	----	--	4	--	--	--	----	--	2	1	--	2	3	1	1	3	3	6	--
12. Pancreas Diseases	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
13. Hepatitis	--	--	--	----	1	----	--	----	--	--	--	----	--	----	--	--	----	1	----	--	----	----	----	--
14. Jaundice	--	--	--	----	----	----	--	2	--	--	--	----	--	----	--	--	----	----	1	2	----	1	2	--
15. Liver Diseases	--	2	--	4	1	3	1	4	1	--	--	3	--	4	--	--	2	3	1	--	2	2	5	1
16. Spleen Diseases	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
III.—Order 5. Urinary Organs	--	--	--	----	1	1	--	6	3	--	--	2	--	3	2	--	2	4	----	--	7	11	6	--
1. Nephritis	--	--	--	----	----	----	--	----	--	--	--	----	--	----	2	--	----	----	----	--	----	3	1	--
2. Ischuria	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
3. Nephria (Bright's Disease)	--	--	--	----	----	----	--	----	--	--	--	1	--	----	--	--	----	----	----	--	2	1	1	--
4. Diabetes	--	--	--	----	1	----	--	----	--	--	--	----	--	1	--	--	1	1	----	--	2	5	2	--
5. Calculus (Gravel, etc.)	--	--	--	----	----	1	--	1	3	--	--	1	--	----	--	--	----	----	----	--	1	----	1	--
6. Cystitis	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	1	----	--	1	----	----	--
7. Kidney Disease	--	--	--	----	----	----	--	5	--	--	--	----	--	2	--	--	1	2	----	--	1	2	1	--
III.—Order 6. Generative Organs	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	1	1	----	--	----	1	2	--
1. Ovarian Dropsy	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	1	----	----	--	----	----	1	--
2. Diseases of Uterus	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	1	----	--	----	1	1	--

* Total for State includes 2 from Black Vomit, and 27 from Disease of Bowels.

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																							
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
III.—ORDER 7. Organs of Locomotion	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	1	--	--
1. Arthritis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2. Joint Diseases	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	1	--	--
III.—ORDER 8. Integumentary System	--	--	--	2	--	--	--	2	--	--	1	--	--	--	--	--	--	2	2	1	2	1	2	--
1. Phlegmon	--	--	--	--	--	--	-	1	--	--	1	--	--	--	--	--	--	2	1	1	1	1	1	--
2. Ulcer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3. Skin Diseases	--	--	--	2	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	--	1	--	1	--
CLASS IV.—Developmental Diseases	2	3	--	18	7	5	1	21	4	5	1	16	3	21	10	--	20	37	16	7	24	32	227	--
IV.—ORDER 1. Developmental Diseases of Children	2	2	--	9	2	2	--	6	2	4	--	5	2	6	--	--	6	15	5	3	8	13	141	--
1. Still-born	2	2	--	2	2	2	--	4	2	4	--	4	--	4	--	--	6	8	5	1	7	5	45	--
2. Premature Birth and Infantile Debility	--	--	--	7	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	2	1	6	48	--
3. Cyanosis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Digitized by Google

4. Spina Bifida	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
5. Other Malformations	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	1	--
6. Teething	--	--	--	----	----	----	--	----	--	--	--	1	2	2	--	--	----	7	----	--	----	2	47	--
IV.—Order 2. Developmental Diseases of Women	--	1	--	3	1	1	1	6	1	--	--	3	--	5	7	--	4	2	3	2	4	4	19	--
1. Paramenia	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	1	--	----	----	1	--
2. Childbirth [a]	--	1	--	3	1	1	1	6	1	--	--	3	--	5	7	--	4	2	2	2	4	4	18	--
IV.—Order 3. Developmental Diseases of Old People	--	--	--	6	4	2	--	9	1	1	1	8	1	10	3	--	10	20	8	2	12	15	67	--
1. Old Age	--	--	--	6	4	2	--	9	1	1	1	8	1	10	3	--	10	20	8	2	12	15	67	--
IV.—Order 4. Diseases of Nutrition	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
1. Atrophy and Debility	--	--	--	----	----	----	--	----	--	--	--	----	--	----	--	--	----	----	----	--	----	----	----	--
Class V.—Violent Deaths	--	4	--	14	8	9	2	14	3	--	2	10	--	29	5	--	12	29	7	7	7	13	59	--
V.—Order 1. Accident or Negligence	--	--	--	4	4	5	--	9	--	--	1	4	--	19	2	--	3	11	3	1	3	3	41	--
1. Fractures and Contusions	--	--	--	1	----	----	--	----	--	--	--	----	--	----	--	--	1	1	----	--	----	----	6	--
2. Wounds	--	--	--	1	----	----	--	1	--	--	--	1	--	3	--	--	----	----	----	--	1	----	2	--
3. Burns and Scalds	--	--	--	1	4	----	--	5	--	--	--	----	--	2	2	--	----	2	2	1	----	1	5	--
4. Poison [b]	--	--	--	1	----	1	--	1	--	--	--	----	--	3	--	--	----	----	1	--	----	2	3	--
5. Drowning	--	--	--	----	----	3	--	----	--	--	1	1	--	9	--	--	1	8	----	--	1	----	20	--

[a] Total for State includes 14 from Abortion.

[b] Total for State includes 1 from "Skoke Root."

Digitized by Google

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.	COUNTIES.																						
	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Osceola.	Ottawa.	Presque Isle.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
6. Suffocation	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	2	--
7. Otherwise	--	--	--	--	--	1	--	1	--	--	--	2	--	2	--	--	--	--	--	--	1	--	3	--
V.—ORDER 2. In Battle	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V.—ORDER 3. Homicide	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	2	--
V.—ORDER 4. Suicide	--	--	--	1	--	--	--	1	1	--	--	1	--	3	--	--	2	1	2	1	1	2	3	--
1. Wounds	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	1	--	1	--	--
2. Poison	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	--	--	--
3. Drowning	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4. Hanging	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	--	--	--	--
5. Otherwise, and not specified	--	--	--	1	--	--	--	1	--	--	--	1	--	3	--	--	1	--	--	--	--	1	3	--
V.—ORDER 5. Execution	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1. Hanging	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Digitized by Google

V.—ORDER 6. Violent Deaths, not included above	..	4	..	9	4	4	2	4	2	..	1	5	..	7	3	..	7	16	2	5	3	8	13	..
Sudden, cause unknown	..	..	..	....	....	....	..	....	..	..	.	....	..	....	..	..	....	....	....	..	....	....	2	..
Cause not specified [a]	..	5	..	23	12	16	10	30	12	2	7	30	..	51	10	..	11	47	17	13	18	18	127	..

[a] Total for State includes 12 from Cold; 1 General Dropsy; 17 Hemorrhage (part not stated); 16 Inflammation; and 21 from Throat Disease.

Digitized by Google

TABLE XVII.—*Exhibiting, by Sex, by Months, by Specified Causes, and by Ages in Periods of Years, the Number of Persons Returned as having Died during the Year ending December 31, 1871; and also, by Sex, and by Specified Causes, the Number of Persons Returned as having Died during the Years 1869 and 1870 (Stillbirths included).*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Totals	529	578	781	721	759	626	788	1083	1055	988	798	1029	57	9728	10766	9145	All Causes	8843	575	284	374	896	733	592	594	664	644	311	218
Males	290	283	418	379	379	329	442	572	562	507	444	557	28	5190	5589	4796	" "	2097	269	134	159	385	344	340	370	396	376	181	139
Females	238	293	359	342	369	295	342	507	490	421	352	469	26	4503	5140	4306	" "	1717	304	149	215	511	389	252	224	268	268	130	76
Unknown	1	2	4	...	2	2	4	4	3	5	2	3	3	35	37	43	" "	29	2	1	...	...	...	...	...	...	...	...	3
Females	2	...	...	2	2	1	1	1	1	2	1	1	..	14	6	7	Abortion	...	...	...	1	5	6	2	...	...	...	...	...
Totals	...	1	1	...	...	...	...	...	1	...	...	...	..	3	3	...	Abscess of Abdomen	...	1	...	...	...	1	...	...	1	...	...	...
Males	...	...	1	...	...	..	...	...	...	...	...	...	..	1	2	...	" "	...	...	...	...	...	1	...	...	...	...	...	...
Females	...	1	...	...	...	..	...	...	1	...	...	...	..	2	1	...	" "	...	1	...	...	...	...	...	...	1	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Abscess of Back	...	...	...	...	..	...	...	...	...	...	...	...
Females	...	...	...	1	...	...	...	...	...	...	...	...	..	1	...	...	" "	1	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	3	...	Abscess of Brain	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	..	...	..	...	...	...	..	...	...	..	...	1	...	" "	...	...	...	...	...	...	...	...	...	...	..	...

Digitized by Google

Males	---	--	---	1	---	---	---	1	---	---	---	---	--	2	3	---	Abscess of Head	2	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	" "	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	1	--	1	---	---	Abscess, Internal	---	---	---	---	---	---	---	---	1	---	---	---	---
Totals	---	--	---	1	1	---	1	---	---	---	1	2	--	6	4	7	Abscess of Liver	---	---	1	---	1	---	2	1	1	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	1	2	--	3	2	4	" "	---	---	1	---	---	---	---	1	1	---	---	---	---
Females	---	---	---	1	1	---	1	---	---	---	---	---	--	3	2	3	" "	---	---	---	---	1	---	2	---	---	---	---	---	---
Totals	1	1	1	1	---	---	---	---	---	---	1	---	--	5	1	2	Abscess of Lungs	---	---	---	---	1	1	1	---	1	1	---	---	---
Males	---	---	1	1	---	---	---	---	---	---	---	---	--	2	1	2	" "	---	---	---	---	1	---	---	---	---	1	---	---	---
Females	1	1	---	---	---	---	---	---	---	---	1	---	--	3	---	---	" "	---	---	---	---	---	1	1	---	1	---	---	---	---
Males	1	---	1	---	1	---	---	1	---	---	---	---	--	4	2	---	Abscess in Side	---	---	---	1	---	1	---	---	1	1	---	---	---
Females	---	---	---	---	---	--	---	---	---	---	--	---	--	---	2	---	" "	---	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	1	--	1	---	---	Abscess of Stomach	---	---	--	---	---	--	---	1	---	---	---	---	---
Totals	1	---	1	1	1	1	1	1	---	2	1	1	--	11	13	16	Abscess	1	---	---	---	1	2	1	4	---	---	---	---	2
Males	1	---	1	1	1	1	1	1	---	1	1	1	--	10	7	11	"	1	---	---	---	1	1	1	4	---	---	---	---	2
Females	---	---	---	---	---	---	---	---	---	1	---	---	--	1	6	5	"	---	---	---	---	---	1	---	---	---	---	---	---	---
Females	---	---	---	1	---	---	---	---	---	---	---	---	--	1	---	---	Albuminuria	---	---	---	---	---	---	1	---	---	---	---	---	---
Males	---	---	1	---	---	---	---	---	---	---	---	---	--	1	2	---	Amputation of Leg	---	---	--	---	---	---	1	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	1	--	1	---	---	Anæmia	1	---	---	---	---	---	---	---	---	---	---	---	---
Totals	5	4	3	4	7	6	8	5	5	8	7	8	--	70	54	65	Apoplexy	4	1	---	1	3	4	6	19	12	16	3	1	
Males	4	1	1	2	6	5	7	3	2	6	4	6	--	47	35	40	"	3	---	---	---	2	3	4	11	10	10	3	1	
Females	1	3	2	2	1	1	1	2	3	2	3	2	--	23	19	25	"	1	1	---	1	1	1	2	8	2	6	---	---	
Totals	---	1	5	1	1	1	2	---	---	2	1	2	--	16	22	22	Asthma	2	1	---	---	---	---	1	3	3	4	2	---	

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Males	...	...	3	...	...	1	...	...	...	1	1	2	..	8	11	20	Asthma	2	...	...	...	...	...	1	1	2	1	1	...
Females	...	1	2	1	1	...	2	...	...	1	...	...	..	8	11	4	"	...	1	...	...	...	...	...	2	1	3	1	...
Males	...	...	...	...	...	...	...	1	...	...	...	...	..	1	...	...	Biliary Calculus	...	...	...	...	...	...	...	1	...	...	...	...
Males	...	1	...	...	...	1	...	...	...	...	...	...	..	2	...	...	Black Vomit	...	...	...	1	...	...	...	...	...	...	1	...
Males	...	...	...	1	...	...	...	...	1	1	...	...	..	3	...	...	Bladder, Disease of	...	...	...	...	...	...	...	...	2	1	...	...
Males	...	1	...	1	...	...	1	...	...	...	...	1	..	4	7	4	Bladder, Inflam. of	...	...	...	...	...	...	1	1	2	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	2	" "	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Blood Poisoning	...	...	...	...	...	...	...	...	...	...	...	...
Totals	2	1	1	1	1	4	2	4	1	4	3	3	..	27	40	45	Bowels, Disease of	16	3	...	2	2	...	1	2	...	1	...	...
Males	2	...	...	1	1	2	...	3	1	3	1	2	..	16	23	23	" "	8	2	...	2	2	...	1	1	...	...	...	...
Females	...	1	1	...	...	2	2	1	...	1	2	1	..	11	17	22	" "	8	1	...	...	...	...	...	1	...	1	...	...
Totals	7	18	15	15	13	13	16	21	20	16	12	17	1	184	187	119	Bowels, Inflam. of	32	8	11	6	19	16	12	10	6	13	...	1
Males	4	11	9	7	4	5	12	16	10	9	6	6	1	100	97	64	" "	52	4	7	4	6	4	6	6	4	6	...	1
Females	3	7	6	8	9	8	4	5	10	7	6	11	..	84	90	55	" "	30	4	4	2	13	12	6	4	2	7	...	...
Females	...	...	...	...	...	...	1	...	...	...	...	...	..	1	...	...	Bowels, Invaginat'n of	1	...	...	...	...	...	...	...	...	...	...	...

Digitized by Google

Males	---	---	---	---	---	---	[a]1	---	[b]1	---	---	[a]1	--	3	3	---	Bowels, Obstruction of	1	---	---	---	1	---	1	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	" "	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	1	---	---	---	---	---	---	--	1	---	---	Bowels, Perforation of	---	---	---	---	---	---	1	---	---	---	---	---
Totals	---	---	---	---	1	---	---	1	---	2	---	---	--	4	3	3	Bowels, Ulceration of	1	---	---	---	2	---	---	1	---	---	---	---
Males	--	---	---	---	1	---	---	---	---	2	---	---	--	3	5	2	" "	---	---	---	---	2	---	---	1	---	---	---	---
Females	---	---	---	---	---	---	---	1	---	---	---	---	--	1	3	1	" "	1	---	---	---	---	---	---	---	---	--	---	---
Totals	9	6	12	9	16	13	15	24	24	15	15	15	--	173	214	204	Brain Disease	113	11	5	4	7	8	7	8	6	8	---	1
Males	6	2	11	6	8	8	9	9	9	8	11	5	--	92	132	111	" "	55	7	4	3	2	4	5	7	3	2	---	---
Females	3	4	1	3	8	5	6	15	15	7	4	10	--	81	82	93	" "	58	4	1	1	5	4	2	1	3	1	---	1
Totals	12	13	18	16	12	16	16	26	24	14	20	23	--	215	233	226	Brain, Inflammation of	150	16	10	6	8	7	5	9	1	---	---	3
Males	6	9	9	6	6	11	8	14	15	7	11	11	--	113	108	122	" "	80	6	6	4	4	3	3	4	---	---	---	3
Females	6	9	9	10	6	5	8	12	9	7	9	12	--	102	125	104	" "	70	10	4	2	4	4	2	5	1	---	---	---
Totals	---	---	3	---	---	1	---	1	4	2	1	---	--	12	15	4	Brain Softening	3	---	---	---	---	3	1	1	1	3	---	---
Males	---	---	---	---	---	---	---	1	3	1	1	---	--	6	9	3	" "	---	--	---	---	---	1	1	1	1	2	---	---
Females	---	---	3	---	---	1	--	---	1	1	---	---	--	6	6	1	" "	3	---	---	---	---	2	---	---	---	1	---	---
Totals	1	1	2	---	5	2	1	1	---	2	1	2	--	18	20	11	Bronchitis	5	1	1	---	4	2	1	1	2	---	1	---
Males	1	---	1	---	3	2	1	1	---	2	1	1	--	13	9	5	"	3	1	---	---	4	1	---	1	2	---	1	---
Females	---	1	1	---	2	---	---	---	---	---	---	1	--	5	11	6	"	2	---	1	---	---	1	1	---	---	---	---	---
Females	---	1	---	---	---	---	---	---	---	---	---	---	--	1	---	---	Bronchitis, Chronic	---	---	---	---	---	---	1	---	---	---	---	---
Totals	1	2	4	---	2	1	1	1	5	18	6	7	1	49	62	68	Burns	12	7	2	4	4	4	4	3	4	4	---	1
Males	---	2	2	---	1	1	---	---	---	6	2	1	--	15	24	22	"	6	2	---	1	---	1	1	1	2	1	---	---

[a] "Stoppage of Bowels."

[b] "Stoppage of Intestines."

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Females	1	...	2	...	1	...	1	1	5	12	4	6	1	84	85	46	Burns	6	5	2	3	4	3	3	2	2	3	...	1
Totals	4	2	12	6	8	9	8	10	11	14	11	10	..	105	120	113	Cancer	1	...	1	2	2	10	15	22	32	18	...	2
Males	4	1	6	2	1	4	1	4	4	8	6	7	..	48	47	47	"	...	...	1	1	...	4	4	8	15	13	...	2
Females	...	1	6	4	7	5	7	6	7	6	5	3	..	57	73	66	"	1	...	...	1	2	6	11	14	17	5	...	...
Totals	...	1	5	3	1	1	1	9	6	5	2	1	..	35	37	47	Canker	30	...	1	1	1	2	...	...	...	...	...	...
Males	...	1	...	...	...	1	...	4	3	2	2	1	..	14	17	24	"	13	...	1	...	...	...	...	...	...	...	...	...
Females	...	...	5	3	1	...	1	5	3	3	...	...	..	21	20	23	"	17	...	...	1	1	2	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	1	Carbuncle	...	...	...	...	...	...	...	...	...	...	...	...
Totals	5	13	13	18	26	13	23	17	26	29	34	28	1	246	177	176	Casualty	28	20	13	22	40	29	29	18	13	10	...	24
Males	5	10	12	15	22	12	20	14	22	29	29	25	1	216	152	149	"	21	13	12	19	33	27	28	16	10	8	...	24
Females	...	3	1	3	4	1	3	3	4	...	5	3	..	30	25	27	"	7	7	1	3	2	2	1	2	3	2	...	...
Totals	...	...	...	...	...	...	...	1	1	...	...	...	..	2	...	...	Catarrh in Head	...	...	...	...	...	...	1	1	...	...	...	...
Males	...	...	...	...	...	...	...	...	1	...	...	...	..	1	...	...	" "	...	...	...	...	...	...	...	1	...	...	...	...
Females	...	...	...	...	...	...	...	1	...	...	...	...	..	1	...	...	" "	...	...	...	...	...	...	1	...	...	...	...	...
Males	...	...	...	...	1	...	...	1	...	...	...	...	..	2	1	4	Catarrh	...	...	...	...	1	...	...	...	1	...	...	...

Digitized by Google

Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	---	2	"	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	---	1	Chicken-pox	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	1	---	---	---	---	---	---	---	---	---	---	---	--	1	1	2	" "	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	11	10	8	10	17	10	7	12	14	12	12	14	--	137	129	118	Childbirth	---	---	---	18	60	51	10	---	---	---	---	---	---	8
Totals	3	2	5	---	1	6	28	44	26	8	6	---	--	129	181	108	Cholera Infantum	129	---	---	---	---	---	---	---	---	---	---	---	---	---
Males	2	---	4	---	---	5	17	23	12	4	2	---	--	69	98	60	" "	69	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	1	2	1	---	1	1	10	21	14	4	4	---	--	59	83	48	" "	59	---	---	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	---	---	---	1	---	---	---	---	---	--	1	---	---	" "	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	1	---	---	2	2	7	1	1	1	1	--	16	30	21	Cholera Morbus	5	---	---	1	1	3	2	2	2	---	---	---	---	---
Males	---	---	1	---	---	1	1	3	1	1	---	1	--	9	19	16	" "	4	---	---	1	---	---	1	2	1	---	---	---	---	---
Females	---	---	---	---	---	1	1	4	---	---	1	---	--	7	11	5	" "	1	---	---	---	1	3	1	---	1	---	---	---	---	---
Totals	---	---	---	---	---	---	1	---	---	---	---	---	--	1	8	9	Cholera	---	---	---	---	---	---	---	---	1	---	---	---	---	---
Males	---	---	---	---	---	---	1	---	---	---	---	---	--	1	4	8	"	---	---	---	---	---	---	---	---	1	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	4	1	"	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	1	---	---	---	---	---	---	---	--	1	---	---	Chlorosis	---	---	---	---	1	---	---	---	---	---	---	---	---	---
Males	---	---	1	---	---	---	1	---	---	---	---	---	--	2	---	---	Choked	2	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Chorea	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Totals	1	1	3	1	1	---	---	---	2	1	1	1	--	12	---	---	Cold	11	---	---	---	---	---	---	---	---	1	---	---	---	---
Males	---	1	2	1	---	---	---	---	1	---	1	1	--	7	---	---	"	7	---	---	---	---	---	---	---	---	---	---	---	---	---
Females	1	---	1	---	1	---	---	---	1	1	---	---	--	5	---	---	"	4	---	---	---	---	---	---	---	---	1	---	---	---	---
Males	---	1	1	---	---	---	1	1	---	---	---	2	--	6	4	3	Colic, Bilious	1	---	---	1	---	2	1	---	1	---	---	---	---	---

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Females	1	---	---	---	---	---	---	---	---	---	--	---	--	1	6	1	Colic, Bilious	---	---	---	---	---	---	--	---	1	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	---	Colic, Painters'	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	1	1	---	---	---	---	1	---	---	2	--	5	6	7	Colic	4	---	---	---	---	---	1	---	---	---	--	---
Males	---	---	---	---	---	---	---	---	---	---	---	2	--	2	4	2	"	2	---	---	---	---	---	---	---	---	---	---	---
Females	--	---	1	1	---	---	---	---	1	---	---	---	--	3	2	5	"	2	---	---	---	---	---	1	---	---	---	---	---
Totals	5	3	2	6	10	5	6	14	23	9	6	6	--	95	88	78	Congestive Chills	31	4	5	1	10	9	4	8	8	12	3	---
Males	3	---	---	4	7	1	4	9	12	4	3	5	--	52	37	35	" "	18	2	1	1	5	5	1	6	4	9	---	---
Females	2	3	2	2	3	4	2	5	11	5	3	1	--	43	51	43	" "	13	2	4	---	5	4	3	2	4	3	3	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	3	---	Constipation	---	---	---	---	---	---	---	---	---	---	---	---
Females	1	---	---	---	---	---	---	---	---	---	1	---	--	2	1	1	"	---	---	---	---	1	---	---	---	---	1	---	---
Totals	75	78	110	115	124	108	104	117	114	105	104	132	17	1303	1451	1283	Consumption	93	19	24	117	325	248	149	178	105	62	10	23
Males	35	36	54	59	59	49	56	59	53	43	50	60	8	635	697	563	"	49	8	13	38	119	116	93	79	67	32	7	14
Females	40	42	56	56	65	59	48	58	61	57	45	72	9	668	753	669	"	44	11	11	79	206	132	56	49	38	30	3	9
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	1	"	---	---	---	---	---	---	---	---	---	---	---	---
Totals	5	4	6	11	5	8	16	8	8	11	7	15	2	106	117	105	Convulsions	92	2	---	3	2	3	---	1	---	---	1	2

Digitized by Google

Males	2	2	4	6	2	3	7	5	5	7	6	11	..	60	70	58	"	56	1	...	...	1	...	...	...	...	...	...	2
Females	3	2	2	5	3	5	9	3	3	4	1	4	2	46	46	47	"	36	1	...	3	1	3	...	1	...	...	1	...
Unknown	...	...	...	...	...	...	..	...	...	...	...	...	..	...	1	...	"	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	1	...	...	...	...	1	...	...	...	...	..	2	...	...	Cough	1	..	1	...	...	..	...	...	...	...	...	...
Totals	...	...	...	...	...	1	...	...	...	2	2	2	..	7	3	...	Croup, Membranous	6	1	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	..	...	...	...	...	...	2	1	2	..	5	2	...	" "	4	1	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	1	...	...	...	...	1	...	..	2	1	...	" "	2	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Croup, Spasmodic	...	...	...	...	...	...	...	...	...	...	...	...
Totals	13	14	16	11	11	5	5	7	10	13	14	27	..	146	123	105	Croup	129	15	1	...	...	...	...	...	...	...	...	1
Males	8	6	8	4	8	4	3	4	7	8	10	8	..	78	70	52	"	67	10	..	...	...	...	...	...	...	...	...	1
Females	5	8	8	7	3	1	2	3	3	5	4	19	..	68	53	51	"	62	5	1	...	...	...	...	...	...	...	...	...
Unknown	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	2	"	...	...	...	...	...	...	...	...	..	...	...	...
Males	..	...	...	...	...	...	..	...	...	...	...	...	..	...	1	...	Cyanosis	...	...	...	...	...	...	...	...	...	...	..	...
Females	...	...	...	...	...	...	...	...	1	...	...	...	..	1	1	2	"	1	...	...	...	...	...	...	...	...	...	...	...
Totals	5	4	10	9	12	3	10	11	16	17	8	8	1	114	111	102	Debility	52	1	...	1	1	5	2	3	14	20	10	5
Males	1	3	5	4	3	3	4	6	10	10	4	4	..	57	53	49	"	27	1	...	...	...	...	...	2	8	11	5	3
Females	4	1	5	5	9	...	6	5	6	7	4	4	1	57	58	52	"	25	...	...	1	1	5	2	1	6	9	5	2
Unknown	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	1	"	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	2	...	Debility, Nervous	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	6	...	" "	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	1	...	...	...	...	..	1	...	...	Defective Organization	1	...	...	...	...	...	...	...	...	...	...	...

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

Sex.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Unknown	---	---	---	---	---	1	---	---	---	---	---	---	--	1	------	---	Deformity of Head	1	---	---	---	---	---	---	---	---	---	---	---
Males	1	---	---	---	3	---	1	1	---	---	---	2	--	8	4	2	Delirium Tremens	---	---	---	---	2	1	4	1	---	---	---	---
Totals	3	2	2	5	1	1	3	3	4	3	2	4	--	33	29	25	Diabetes	1	2	3	1	3	1	3	3	8	6	1	1
Males	2	2	1	3	1	1	2	3	2	3	1	3	--	24	19	19	"	1	---	---	1	3	1	2	2	7	5	1	1
Females	1	---	1	2	---	---	1	---	2	---	1	1	--	9	10	6	"	---	2	3	---	---	---	1	1	1	1	---	---
Totals	2	1	4	4	4	8	41	68	36	14	5	6	--	193	378	295	Diarrhea	168	7	1	1	3	2	4	1	3	2	---	1
Males	1	---	2	1	1	7	21	33	21	8	3	2	--	100	191	163	"	89	6	1	---	1	1	1	---	1	---	---	---
Females	1	1	2	3	3	1	20	35	15	6	2	4	--	93	187	132	"	79	1	---	1	2	1	3	1	2	2	---	1
Totals	1	---	1	---	---	1	3	3	6	2	3	3	--	23	29	16	Diarrhea, Chronic	9	---	---	---	---	---	1	5	4	2	1	1
Males	---	---	1	---	---	1	2	2	4	2	1	3	--	16	16	11	" "	4	---	---	---	---	---	1	4	4	2	1	---
Females	1	---	---	---	---	---	1	1	2	---	2	---	--	7	13	5	" "	5	---	---	---	---	---	---	1	---	---	---	1
Totals	11	10	9	3	2	5	10	8	21	10	15	15	2	121	121	89	Diphtheria	63	37	11	5	1	2	1	1	---	---	---	---
Males	5	4	4	1	1	2	3	2	14	4	8	5	--	53	56	49	"	31	13	3	3	---	1	1	1	---	---	---	---
Females	6	6	5	2	1	3	7	6	7	6	7	10	2	68	65	40	"	32	24	8	2	1	1	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	4	---	Dropsy of Abdomen	---	---	---	---	---	---	---	---	---	---	---	---

Digitized by Google

Females										1				1	3		" "									1								
Totals						1					1			2			Dropsy of Bowels						1			1								
Males											1			1			" "						1											
Females						1								1			" "									1								
Totals	1	4	5	5	6	5	4	8	5	3	3	6	1	56			Dropsy of Brain	48	5			3												
Males	1	2	2	3	3	1	2	4	4		2	4		28			" "	25	2			1												
Females		2	3	2	3	4	2	4	1	3	1	2	1	28			" "	23	3			2												
Totals	1	1	2		2	1	1	2	1	1		2		14	16	5	Dropsy of Chest		2			2	1	1	2	1	4	1						
Males			2		1	1	1	1						6	4	1	" "					2			1		2	1						
Females	1	1			1			1	1	1		2		8	12	4	" "		2				1	1	1	1	2							
Females					1									1			Dropsy, General								1									
Males															37		Dropsy of Head																	
Females															25		" "																	
Totals	2	2	5	1	7	6	2	4	5	6	5	4		49	43	22	Dropsy of Heart	4	2	2	4	5	5	2	8	6	9	2						
Males	1	1	1		5	5	2	2	3	1	2	2		25	17	10	" "	2		2	2	1	1	1	3	4	7	2						
Females	1	1	4	1	2	1		2	2	5	3	2		24	26	12	" "	2	2		2	4	4	1	5	2	2							
Females															2		Dropsy, Ovarian																	
Females															1		Dropsy of Uterus																	
Totals	14	14	11	11	18	16	18	22	20	24	21	18	3	210	246	246	Dropsy (Unspecified)	20	9	8	6	15	15	21	24	43	35	12	2					
Males	7	1	5	6	7	7	7	13	6	10	7	8	2	86	103	110	" "	6	5	3	1	4	3	10	8	16	22	6	2					
Females	7	13	6	5	11	9	11	9	14	14	14	10	1	124	143	136	" "	14	4	5	5	11	12	11	16	27	13	6						
Totals	1		3	8	10	14	13	13	3	13	5	4		87	107	96	Drowning	12	17	5	11	11	12	9	3	3			4					

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Males	1	...	2	7	9	12	12	10	3	12	5	3	..	76	91	76	Drowning	8	16	5	9	8	11	9	3	3	...	...	4
Females	...	...	1	1	1	2	1	2	...	1	...	1	..	10	16	20	"	3	1	...	2	3	1	...	...	...	...	...	...
Unknown	...	...	...	...	...	...	...	1	...	...	...	...	..	1	...	...	"	1	...	...	...	...	...	...	...	...	...	...	...
Totals	4	1	2	2	2	5	21	66	43	20	3	3	..	172	373	236	Dysentery	130	7	3	1	3	4	4	4	6	4	3	3
Males	2	...	2	2	2	2	13	29	23	9	1	1	.	86	197	136	"	66	4	1	1	1	2	1	1	3	4	1	1
Females	2	1	...	...	...	3	8	37	20	11	2	2	..	86	176	99	"	64	3	2	...	2	2	3	3	3	...	2	2
Unknown	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	1	"	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	1	..	1	1	...	Dysentery, Chronic	...	...	...	...	...	...	1	...	...	...	..	...
Totals	...	...	2	...	1	...	...	...	1	1	2	1	..	8	25	7	Dyspepsia	3	...	...	...	1	1	1	...	2	...	...	...
Males	...	...	1	...	...	...	...	...	1	1	...	...	..	3	15	4	"	2	...	...	...	...	1	...	...	...	...	...	...
Females	...	...	1	...	1	...	...	...	...	...	2	1	..	5	10	3	"	1	...	...	...	1	...	1	...	2	...	...	...
Males	...	...	...	1	...	...	...	...	...	...	...	...	..	1	...	...	Emphysema	1	...	...	...	...	..	...	...	..	...	...	...
Totals	1	...	5	3	1	...	1	4	3	4	...	3	..	25	18	12	Epilepsy	3	2	...	3	3	4	2	...	4	2	...	2
Males	...	...	4	1	1	...	1	2	1	2	...	2	..	14	9	7	"	2	...	...	3	2	2	...	...	3	2	...	...
Females	1	...	1	2	...	...	...	2	2	2	...	1	..	11	9	5	"	1	2	...	...	1	2	2	...	1	...	...	2

Digitized by Google

Totals....	8	5	8	7	7	6	9	8	9	5	5	9	..	86	68	69	Erysipelas.....	28	4	5	8	3	6	12	6	6	9	2	2
Males....	4	1	2	4	2	2	5	1	3	1	3	5	..	33	36	40	"	11	...	1	2	1	3	4	5	...	4	...	2
Females.	4	4	6	3	5	4	4	7	6	4	2	4	..	53	32	29	"	17	4	4	1	2	3	8	1	6	5	2	...
Females.	---	---	---	---	---	---	---	---	---	---	1	---	..	1	.....	---	Extra Uterine Pregn'cy	---	---	---	---	---	1	---	---	---	---	---	---
Males....	---	---	---	---	---	---	---	---	---	---	1	---	..	1	.....	---	Fatty Degeneration....	---	---	---	---	---	---	---	---	1	---	---	---
Males....	---	---	---	---	---	---	---	---	---	1	---	---	..	1	.....	---	Feet, Disease of.....	---	---	---	---	---	---	---	---	---	1	---	---
Females.	---	---	---	---	---	---	---	---	---	---	---	---	..	---	1	---	Felon	---	---	---	---	---	---	---	---	---	---	---	---
Females.	---	---	---	---	---	---	---	---	---	1	---	---	..	1	.....	---	"Female Pills".....	---	---	---	---	1	---	---	---	---	---	---	---
Totals....	1	1	1	2	4	2	6	10	9	8	4	7	..	55	65	41	Fever, Bilious.....	12	3	6	5	4	2	6	4	4	7	1	1
Males....	---	---	---	1	3	---	5	4	5	3	..	4	..	25	34	18	" "	3	1	4	3	2	---	3	1	1	6	1	---
Females.	1	1	1	1	1	2	1	6	4	5	4	3	..	30	30	23	" "	9	2	2	2	2	2	3	3	3	1	---	1
Unknown	--	---	---	---	---	---	---	---	---	---	---	---	..	---	1	---	" "	---	---	---	---	---	---	---	---	---	---	---	---
Males....	---	---	---	---	---	---	---	---	1	---	---	---	..	1	.....	---	Fever, "Black".....	---	---	---	---	---	---	---	---	1	---	---	---
Males....	---	---	---	---	---	---	---	---	---	---	---	---	..	---	4	---	Fever, Congestive.....	---	---	---	---	---	---	---	---	---	---	---	---
Females.	---	---	---	---	---	---	---	---	---	---	---	---	..	---	4	---	" "	---	---	---	---	---	---	---	---	---	---	---	---
Males....	---	---	---	---	---	---	---	---	---	---	---	---	..	---	1	---	Fever, Continued.....	---	---	---	---	---	---	---	---	---	---	---	---
Males....	---	---	1	---	---	---	---	---	---	2	---	---	..	3	.....	---	Fever, Gastric.....	2	---	---	---	---	---	---	---	1	---	---	---
Totals....	3	3	2	2	4	---	1	7	7	8	5	1	..	48	66	38	Fever, Intermittent [a] ..	27	1	---	2	1	---	4	1	1	3	2	1
Males....	1	2	1	1	1	---	1	2	3	5	2	1	..	20	35	20	" " ..	15	---	---	---	---	---	3	1	---	1	---	---
Females.	2	1	1	1	3	---	---	5	4	3	3	---	..	28	31	18	" " ..	12	1	---	2	1	---	1	---	1	2	2	1
Females.	---	---	---	---	---	---	---	---	---	---	---	---	..	---	1	---	Fever, Malignant.....	---	---	---	---	---	---	---	---	---	---	---	---

[a] Includes 10 from "Worm Fits" in 1871, and 7 "Worm Fits" in 1870.

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Totals	2	1	1	...	1	...	2	1	...	...	...	...	..	8	...	...	Fever, Nervous	3	...	...	1	2	1	1	...	...	...	...	...
Males	2	1	...	...	1	...	...	1	...	...	...	...	..	5	...	...	" "	3	...	...	1	1	...	...	...	...	...	...	...
Females	...	...	1	...	...	...	2	...	...	...	...	...	..	3	...	...	" "	...	...	...	...	1	1	1	...	...	...	...	...
Totals	...	1	1	1	1	1	1	1	2	4	1	1	..	15	9	5	Fever, Remittent	10	2	...	2	...	...	...	1	...	...	...	...
Males	...	1	...	1	...	...	1	1	1	1	...	...	..	6	4	3	" "	5	...	...	1	...	...	...	...	...	...	...	...
Females	...	...	1	...	1	1	...	...	1	3	1	1	..	9	5	2	" "	5	2	...	1	...	...	...	1	...	...	...	...
Totals	16	26	25	23	25	21	15	37	59	41	34	32	3	357	574	437	Fever, Typhoid	43	35	33	46	67	29	30	27	20	19	4	4
Males	8	15	8	9	13	8	9	18	37	25	23	17	2	192	270	228	" "	23	14	9	20	46	12	22	18	13	12	2	1
Females	8	11	17	14	12	13	6	19	22	16	11	15	1	165	304	209	" "	20	21	24	26	21	17	8	9	7	7	2	3
Totals	...	1	...	...	...	...	1	...	...	3	1	2	..	8	1	9	Fever, Typhus	2	1	...	2	1	1	1	...	...	...	...	...
Males	...	1	...	...	...	...	...	...	...	1	1	1	..	4	...	6	" "	1	1	...	1	...	1	...	...	...	...	...	...
Females	...	...	...	...	...	...	1	...	...	2	...	1	..	4	1	3	" "	1	...	...	1	1	...	1	...	...	...	...	...
Totals	4	6	5	9	13	6	10	14	17	5	13	8	..	120	126	248	Fever (Unspecified)	58	9	8	3	5	14	7	4	4	4	1	3
Males	3	1	3	3	6	3	6	7	8	6	6	4	..	56	71	133	" "	28	3	3	2	2	8	2	3	2	1	1	1
Females	1	5	2	6	7	3	4	6	9	8	7	4	..	62	55	115	" "	28	6	5	1	3	6	5	1	2	3	...	2

Digitized by Google

Unknown	...	...	...	...	...	...	...	1	...	1	...	...	..	2	...	...	" "	2	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	1	...	...	...	1	1	..	1	...	..	4	...	...	Fever-sore	...	1	...	...	1	...	...	...	...	2	...	...
Totals	5	5	13	14	8	10	14	9	11	14	9	17	2	181	164	151	Fits (unspecified)	115	3	2	1	3	2	1	1	...	1	...	2
Males	4	2	9	6	6	4	7	5	4	6	6	10	1	70	97	81	" "	62	2	1	1	1	1	...	...	...	...	...	2
Females	1	3	4	8	2	6	7	4	7	8	3	7	1	61	67	69	" "	53	1	1	...	2	1	1	1	...	1	...	...
Unknown	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	1	" "	...	...	...	...	...	...	...	...	...	...	...	...
Males	1	...	...	...	...	...	...	...	...	...	...	...	.	1	1	...	Fracture of Arm	...	...	...	...	1	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Fracture of Clavicle	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Fracture of Hip	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	3	...	Fracture of Leg	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	1	...	...	...	...	...	...	...	...	..	1	...	1	" "	...	...	...	...	...	...	...	...	1	...	...	...
Females	...	1	1	...	...	...	...	...	...	...	...	...	..	2	...	...	"Fracture of Limb"	...	...	...	...	...	...	...	...	1	...	1	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Fracture of Neck	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	2	4	Fracture of Skull	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	1	...	...	...	...	...	..	1	...	1	" "	1	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	1	...	..	1	...	...	Fracture of Spine	...	...	...	...	...	...	1	...	...	...	...	...
Males	...	...	...	...	1	...	...	...	...	...	...	...	..	1	1	1	Fracture	...	...	...	...	...	...	1	...	...	...	...	...
Males	...	1	1	...	...	...	...	...	...	...	...	...	..	2	2	...	Freezing	...	...	...	1	1	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	1	...	...	..	1	...	...	Gall-stone	...	...	...	...	...	...	...	1	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	2	...	"	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	1	...	...	...	...	...	...	...	...	...	..	1	...	...	Gangrene in Leg	...	...	...	...	...	...	...	...	1	...	...	...
Males	...	...	...	1	...	...	...	...	...	...	...	...	..	1	...	...	Gangrene of Lungs	...	...	...	...	1	...	...	...	...	...	...	...

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Males	...	...	...	1	...	...	...	...	...	...	...	...	..	1	...	...	Gangrene, Senile	...	...	...	...	...	...	...	...	...	1	...	...
Totals	...	...	...	...	...	...	...	...	1	...	...	1	..	2	3	...	Gangrene	...	...	...	...	...	...	...	...	1	...	1	...
Males	...	...	...	...	...	...	...	...	...	...	...	1	..	1	3	...	"	...	...	...	...	...	...	...	...	...	...	1	...
Females	...	...	...	...	...	..	...	...	1	...	...	...	..	1	...	...	"	...	...	...	...	...	...	...	...	1	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Gout	...	...	...	...	...	...	...	...	...	...	...	...
Totals	1	2	2	4	...	1	2	1	4	2	2	3	..	24	24	24	Gravel	1	...	...	...	...	1	...	3	3	7	3	1
Males	1	2	2	4	...	1	2	1	3	2	2	3	..	23	23	22	"	1	...	...	...	...	...	...	3	3	7	3	1
Females	...	...	...	...	...	...	...	...	1	...	...	...	..	1	1	2	"	...	...	...	...	...	1	...	...	...	...	...	...
Totals	1	...	1	1	2	1	2	...	2	2	...	...	..	12	21	14	Gun-shot	...	2	2	3	3	1	...	1	...	...	...	...
Males	1	...	1	1	2	1	2	...	1	2	...	...	..	11	20	12	"	...	1	2	3	3	1	...	1	...	...	...	...
Females	...	..	...	...	...	...	...	...	1	...	...	...	..	1	1	2	"	...	1	...	...	...	...	...	...	...	...	...	...
Totals	2	1	...	1	...	...	2	...	1	1	3	1	..	12	12	8	Hæmoptysis	2	2	...	...	1	2	1	3	1	...	...	...
Males	1	1	...	1	...	...	1	...	...	1	3	1	..	9	9	7	"	2	1	...	...	1	2	1	1	1	...	...	...
Females	1	...	...	...	...	...	1	...	1	...	...	...	..	3	3	1	"	...	1	...	...	...	...	...	2	...	...	...	...
Males	...	..	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Headache	...	...	...	...	...	...	...	...	...	...	...	...

Digitized by Google

Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Heart Clot	---	---	---	---	---	---	---	---	---	---	---	--
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	" "	---	---	---	---	---	---	---	---	---	---	---	---
Totals	15	14	24	12	28	13	20	22	15	25	15	27	--	230	258	252	Heart Disease	17	6	6	9	26	22	22	34	49	31	6	2
Males	10	8	13	7	14	8	12	9	10	15	7	13	--	126	145	140	" "	8	2	3	1	10	14	9	20	29	23	6	1
Females	5	6	11	5	14	5	8	13	5	10	8	14	--	104	113	112	" "	9	4	3	8	16	8	13	14	20	8	---	1
Totals	---	--	---	1	---	1	1	1	---	---	---	2	--	6	2	---	Heart, Enlargement of	---	---	1	1	---	1	1	---	1	---	---	1
Males	---	---	---	---	---	1	---	1	---	---	---	1	--	3	1	---	" "	---	---	1	---	---	1	---	---	---	---	---	1
Females	---	---	---	1	---	---	1	---	---	---	---	1	--	3	1	---	" "	---	---	---	1	---	---	1	---	1	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	---	Heart, Ossification of	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Heart, Palpitation of	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	---	" "	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	1	---	---	--	1	---	---	Heart, Rupture of	---	---	---	---	---	---	---	---	---	1	---	---
Totals	---	1	---	---	---	---	---	---	1	1	---	---	--	3	1	---	Heart, Valv. Disease of	---	---	---	---	---	--	---	---	---	3	---	---
Males	---	---	---	---	---	---	---	---	---	1	---	---	--	1	1	---	" " "	---	---	---	---	---	---	---	---	---	1	---	---
Females	---	1	---	---	---	---	---	---	1	---	---	---	--	2	---	---	" " "	---	---	---	---	---	---	---	---	---	2	---	---
Totals	---	---	---	---	---	1	---	---	---	---	1	---	--	2	---	---	Heat	---	---	---	---	---	---	2	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	1	---	--	1	---	---	"	---	---	---	---	---	---	1	---	---	---	---	---
Females	---	---	---	---	---	1	---	---	---	---	---	---	--	1	---	---	"	---	---	---	---	---	---	1	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Hemorrhage fr'm Blad'r	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	---	---	---	1	---	---	1	1	---	---	--	3	3	---	Hemorrhage fr'm Bowels	---	---	---	---	1	---	---	1	1	---	---	---
Males	---	---	---	---	---	1	---	---	---	1	---	---	--	2	2	---	" " "	---	---	---	---	1	---	---	1	---	---	---	---
Females	---	---	---	---	---	---	---	---	1	---	---	---	--	1	1	---	" " "	---	---	---	---	--	---	---	---	1	---	---	---

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Hemorrhage from Leg	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Hemorrhage from Nose	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Hemorrhage, Puerperal	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Hem. from Umbilicus	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	1	Hemorrhage fr'm Uterus	...	...	...	...	...	...	...	...	...	...	...	...
Totals	2	2	1	...	2	1	2	1	3	...	1	2	..	17	11	15	Hemorrhage	3	1	1	...	3	2	1	3	2	1	...	...
Males	1	2	...	...	2	1	...	1	2	...	1	2	..	12	6	9	"	2	...	1	...	1	2	...	3	2	1	...	...
Females	1	...	1	...	...	...	2	...	1	...	...	...	..	5	5	6	"	1	1	...	...	2	...	1	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Hernia of Brain	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	1	...	...	...	...	...	...	...	..	1	...	...	Hernia, Strangulated	...	...	...	...	...	...	...	...	1	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Hernia, Umbilical	...	...	...	...	...	...	...	...	...	...	...	...
Totals	...	...	...	3	...	1	2	...	2	3	...	...	..	11	15	18	Hernia, Unspecified	1	...	...	...	1	...	3	2	1	3	...	...
Males	...	...	...	3	...	1	1	...	1	1	...	...	..	7	12	11	" "	1	..	...	...	1	...	...	2	...	3	...	...
Females	...	...	...	...	...	...	1	...	1	2	..	...	..	4	3	7	" "	...	...	...	...	...	...	3	...	1	...	...	...
Totals	...	...	...	1	...	1	1	...	...	...	...	...	..	3	5	2	Hip Disease	...	...	1	...	2	...	...	...	...	...	...	...

Digitized by Google

Males	---	---	---	---	---	1	1	---	---	---	---	---	--	2	3	2	Hip Disease	---	---	1	---	1	---	---	---	---	---	---	---
Females	---	---	---	1	---	---	---	---	---	---	---	---	--	1	2	---	" "	---	---	---	---	1	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	1	1	---	---	1	1	--	4	1	---	Homicide	---	---	---	1	1	---	2	---	---	---	---	---
Totals	---	---	1	1	---	---	1	---	---	---	1	1	--	5	3	8	Hydrocephalus	5	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	1	---	---	---	1	1	--	3	1	3	"	3	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	1	1	---	---	---	---	---	---	---	---	--	2	2	5	"	2	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	1	---	---	---	---	---	---	---	--	1	.....	---	Infanticide	1	---	---	---	---	---	---	---	---	---	---	---
Totals	6	2	9	8	7	7	7	12	9	12	6	12	1	98	37	49	Infantile	98	---	---	---	---	---	---	---	---	---	---	---
Males	5	1	5	4	4	6	2	5	4	8	5	7	1	57	20	32	"	57	---	---	---	---	---	---	---	--	---	---	---
Females	1	1	4	4	3	1	5	7	5	4	---	5	--	40	17	14	"	40	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	---	---	---	---	---	---	---	---	---	1	---	--	1	.....	3	"	1	---	---	---	---	---	---	---	---	---	---	---
Totals	---	1	1	2	---	2	---	3	2	2	1	2	--	16	.....	---	Inflammation	6	1	---	---	4	1	2	---	1	---	---	1
Males	---	1	1	---	---	1	---	2	1	2	---	1	--	9	.....	---	"	6	1	---	---	1	---	---	---	1	--	---	---
Females	---	---	---	2	---	1	---	1	1	---	1	1	--	7	.....	---	"	---	---	---	---	3	1	2	---	---	---	---	1
Females	---	---	2	---	---	---	---	---	---	---	---	---	--	2	.....	---	Influenza	1	---	---	---	---	---	---	---	---	1	---	---
Totals	---	---	---	---	---	---	---	---	1	---	---	1	--	2	.....	---	Injury at Birth	2	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	1	---	---	---	--	1	.....	---	" " "	1	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	1	--	1	.....	---	" " "	1	---	---	---	---	---	---	---	---	---	---	---
Totals	2	1	---	2	1	---	---	1	3	2	1	2	--	15	13	19	Insanity	---	---	---	---	2	3	3	2	1	3	---	1
Males	1	1	---	---	1	---	---	1	1	2	1	2	--	10	5	15	"	---	---	---	---	---	2	2	1	1	3	---	1
Females	1	---	---	2	---	---	---	---	2	---	---	---	--	5	8	4	"	---	---	---	---	2	1	1	1	---	---	---	---
Totals	1	---	3	1	2	---	---	3	2	1	---	1	--	14	10	10	Intemperance	---	---	---	---	---	4	3	2	3	1	---	1

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Males	1	...	3	1	2	...	...	3	2	1	...	...	..	13	9	8	"	...	...	...	...	...	3	3	2	3	1	...	1
Females	...	...	...	...	...	...	...	...	...	...	...	1	..	1	1	2	"	...	...	...	...	...	1	...	...	...	...	...	...
Males	...	...	...	...	...	1	...	...	...	...	...	...	..	1	1	1	Intussusception	...	...	1	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	1	"	...	...	...	...	...	...	...	...	...	...	...	...
Totals	2	2	2	...	1	2	2	...	2	2	2	...	..	17	20	11	Jaundice	1	2	2	...	1	1	...	4	3	2	1	...
Males	2	2	2	...	1	2	1	...	1	1	2	...	..	14	13	8	"	1	1	2	...	1	1	...	3	2	2	1	...
Females	...	...	...	...	...	...	1	...	1	1	...	...	..	3	7	3	"	...	1	...	...	...	...	...	1	1	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Jaw, Disease of Lower.	...	...	...	...	...	...	...	...	...	...	...	...
Totals	...	3	...	...	...	2	2	1	...	...	1	1	..	10	2	...	Kidney, Bright's Dis. of	...	...	...	1	1	3	...	2	2	1	...	...
Males	...	2	...	...	...	1	1	1	...	...	1	1	..	7	2	...	" " "	...	...	...	...	1	2	...	1	2	1	...	...
Females	...	1	...	...	...	1	1	...	...	...	...	...	..	3	...	...	" " "	...	...	...	1	...	1	...	1	...	...	...	...
Totals	1	1	1	1	3	5	5	2	6	3	4	2	..	34	33	29	Kidney Disease	1	1	...	...	3	1	2	6	14	5	1	...
Males	...	1	1	1	1	4	5	2	6	3	4	2	..	30	25	22	" "	1	...	...	...	3	1	2	5	13	4	...	1
Females	1	...	...	...	2	1	...	...	...	...	...	...	..	4	8	7	" "	...	1	...	...	...	...	...	1	1	1	...	...
Totals	...	...	3	2	1	1	1	1	1	1	...	2	..	13	10	3	Kidneys, Inflam. of	1	2	1	...	...	1	..	1	2	4	1	...

Digitized by Google

Males	...	...	8	...	...	1	1	...	1	1	...	2	..	9	9	1	" "	1	1	...	...	...	1	...	1	2	3	...	...
Females	...	...	...	2	1	...	...	1	...	...	...	...	..	4	1	2	" "	...	1	1	...	...	...	...	...	...	1	1	...
Totals	...	...	...	...	...	3	1	...	...	...	...	...	..	4	7	4	Lightning	...	...	...	1	3	...	...	...	...	...	...	...
Males	...	...	...	...	...	3	...	...	...	...	...	...	..	3	6	3	"	...	...	...	1	2	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	1	...	...	...	...	...	..	1	1	1	"	...	...	...	...	1	...	...	...	...	...	...	...
Totals	4	4	8	2	6	8	2	10	8	11	6	3	..	67	72	47	Liver Disease	8	6	1	...	2	8	9	7	13	12	1	...
Males	3	3	5	2	3	1	1	6	6	7	3	2	..	42	40	30	" "	4	2	1	...	2	4	7	4	7	10	1	...
Females	1	1	3	...	3	2	1	4	2	4	3	1	..	25	32	17	" "	4	4	...	...	...	4	2	3	6	2	...	...
Males	...	1	...	...	...	...	...	...	...	...	...	...	..	1	1	...	Liver, Enlargement of	...	...	...	...	...	...	...	...	...	1	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	4	1	" "	...	...	...	...	...	...	...	...	...	...	...	...
Totals	1	...	2	...	...	...	...	...	2	1	4	...	..	10	6	5	Liver, Inflam. of	...	...	...	...	2	1	2	2	3	...	...	...
Males	1	...	2	...	...	...	...	...	1	...	3	...	..	7	1	2	" "	...	...	...	...	1	...	2	1	3	...	...	...
Females	...	...	...	...	...	...	...	...	1	1	1	...	..	3	5	3	" "	...	...	...	...	1	1	...	1	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Liver, Chronic Inflam. of	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	..	...	...	...	1	...	...	..	1	...	...	Lock-jaw	...	1	...	...	...	...	...	...	...	...	...	...
Totals	8	16	17	14	10	5	9	10	14	14	10	25	..	152	154	112	Lung Disease	58	5	3	...	13	15	14	13	15	15	1	...
Males	5	8	9	6	6	3	6	5	8	9	7	11	..	83	80	67	" "	31	3	1	...	7	9	9	8	7	8	...	...
Females	3	8	8	8	4	2	3	5	6	5	3	14	..	69	74	45	" "	27	2	2	...	6	6	5	5	8	7	1	...
Males	...	...	...	...	...	...	...	1	...	...	...	...	..	1	3	1	Malformation	...	1	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	3	3	"	...	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Mania, Acute	...	...	...	...	...	...	...	...	...	...	...	...

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Marasmus	---	---	---	---	---	---	---	---	---	---	---	---
Totals	5	4	5	8	5	2	4	5	4	4	3	18	--	67	56	147	Measles	54	4	3	---	3	---	---	---	---	---	---	3
Males	3	3	1	6	2	---	3	2	1	4	1	12	--	38	26	84	"	30	3	1	---	2	---	---	---	---	---	---	2
Females	2	1	4	2	3	2	1	3	3	---	2	6	--	29	30	63	"	24	1	2	---	1	---	---	---	---	---	---	1
Totals	1	---	1	1	3	1	---	---	2	---	---	9	--	18	9	5	Meningitis, Cerebro spinal	9	3	3	2	1	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	1	---	---	6	--	7	5	3	" " "	3	1	2	1	---	---	---	---	---	---	---	---
Females	1	---	---	1	3	1	---	---	1	---	---	3	--	10	4	2	" " "	6	1	1	1	1	---	---	---	---	---	---	---
Unknown	---	---	1	---	---	---	---	---	---	---	---	---	--	1	------	---	" " "	---	1	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	1	---	---	---	---	---	---	---	---	--	1	------	---	Meningitis, Chronic	---	---	---	---	---	---	1	---	---	---	---	---
Totals	---	---	2	---	---	---	---	---	---	---	---	---	--	2	1	6	Meningitis, Spinal	1	---	---	---	---	1	---	---	---	---	---	---
Males	---	---	1	---	---	---	---	---	---	---	---	---	--	1	------	2	" "	1	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	1	---	---	---	---	---	---	---	---	---	--	1	1	4	" "	---	---	---	---	---	1	---	---	---	---	---	---
Totals	---	---	---	1	---	---	1	---	---	2	---	---	--	4	------	3	Meningitis, Tubercular	3	1	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	1	---	---	---	---	---	--	1	------	1	" "	1	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	1	---	---	---	---	---	2	---	---	--	3	------	2	" "	2	1	---	---	---	---	---	---	---	---	---	---

Digitized by Google

Totals	1										1			2	1	2	Meningitis	1									1		
Males											1			1		1	"	1											
Females	1													1	1	1	"										1		
Females								1						1			Metro-Peritonitis						1						
Females										1				1	2		Milk Leg						1						
Males															1	5	Mortification												
Females			1											1	1	2	"								1				
Totals				1	1		2	2		1		1		8			Mumps	6	2										
Males					1		2	2		1				6			"	4	2										
Females				1								1		2			"	2											
Males			1						1		1	1		4	1	5	Murder					1		2	1				
Females															3	1	"												
Males															1		Nervous Affection												
Females															1		" "												
Totals		1	2	1		1	1			1				7	7	7	Neuralgia					1	1		1		4		
Males		1	1	1										3	1	4	"						1		1		1		
Females			1			1	1			1				4	6	3	"					1					3		
Males															1		Nursing Sore Mouth												
Females															3		" " "												
Totals	16	19	24	36	31	20	31	54	39	39	24	37	2	372	313	310	Old Age								1	28	151	185	7
Males	5	9	12	15	16	6	15	31	19	19	13	20		179	147	153	" "									9	71	96	3

a Includes from "Spotted Fever," 16 for 1871, 8 for 1870, and 5 for 1869.

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

Sex.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Females	11	11	12	21	15	14	16	28	20	20	11	17	2	193	166	157	Old Age	---	---	---	---	---	---	---	1	19	80	89	4
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Operation for Tumor	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	1	---	--	1	---	---	Ovarian Disease	---	---	---	---	---	1	---	---	---	---	---	---
Females	---	---	---	---	1	---	---	---	1	---	1	---	--	3	3	3	Ovarian Tumor	---	---	---	---	1	---	---	1	1	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	---	Ovariotomy	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	---	1	---	---	---	---	---	1	---	1	--	3	1	---	Overdose of Chloroform	---	---	---	---	---	3	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	1	---	---	--	1	---	---	" "	---	---	---	---	---	1	---	---	---	---	---	---
Females	---	---	---	1	---	---	---	---	---	---	---	1	--	2	1	---	" "	---	---	---	---	---	2	---	---	---	---	---	---
Males	---	---	---	---	1	--	---	---	---	---	---	---	--	1	---	---	Ov'rd'se of Gelseminum	---	---	---	---	1	---	---	---	---	---	---	---
Females	---	---	1	---	---	---	---	---	---	---	---	---	--	1	---	---	Overdose of Morphine	---	---	---	---	---	---	---	---	---	---	---	1
Totals	12	5	11	11	15	10	14	12	15	13	8	18	--	144	115	120	Paralysis	4	2	1	1	3	7	12	17	34	42	20	1
Males	6	1	6	7	10	8	10	5	11	8	6	10	--	88	66	62	"	3	1	---	---	3	4	6	7	25	24	14	1
Females	6	4	5	4	5	2	4	7	4	5	2	8	--	56	49	58	"	1	1	1	1	---	3	6	10	9	18	6	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	3	---	Paralysis, Puerperal	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	---	" "	---	---	---	---	---	---	---	---	---	---	---	---

Digitized by Google

Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---		2	---
Totals	3	---	---	---	---	1	---	---	---	1	1	---	--	6	5	5
Males	2	---	---	---	---	1	---	---	---	1	---	---	--	4	3	2
Females	1	---	---	---	---	---	---	---	---	---	1	---	--	2	2	3
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	3	---
Males	---	---	--	---	---	1	---	---	---	---	---	---	--	1	---	---
Males	---	---	---	---	---	---	---	---	1	---	1	---	--	2	---	---
Males	---	1	---	---	---	---	---	---	---	---	---	---	--	1	---	---
Totals	1	2	1	2	---	---	---	1	1	1	1	2	--	12	11	9
Males	1	---	1	1	---	---	---	1	---	1	---	2	--	7	7	6
Females	---	2	---	1	---	---	---	---	1	---	1	---	--	5	4	3
Males	---	---	---	---	---	---	---	---	---	---	---	1	--	1	---	---
Totals	41	50	64	41	27	18	17	19	38	28	34	63	1	441	378	427
Males	26	32	37	24	17	13	8	12	25	18	18	37	1	268	221	234
Females	15	18	27	17	10	5	9	7	13	10	16	26	--	173	157	193
Totals	2	8	4	8	---	---	---	1	8	5	5	4	--	40	27	28
Males	1	3	1	6	---	---	---	1	---	4	1	3	--	20	14	18
Females	1	5	3	2	---	---	---	---	3	1	4	1	--	20	13	10
Totals	---	---	2	3	2	---	2	3	2	---	---	---	--	14	20	16
Males	---	---	1	2	2	---	1	2	2	---	---	---	--	10	7	12
Females	---	---	1	1	---	---	1	1	---	---	---	---	--	4	13	4
Females	---	---	---	---	1	---	---	---	---	---	---	---	--	1	1	---

Paraplegia	---	---	---	---	---	---	---	---	---	---	---	---
Peritonitis	---	---	---	---	3	2	1	---	---	---	---	---
"	---	---	---	---	2	1	1	---	---	---	---	---
"	---	---	---	---	1	1	---	---	---	---	---	---
Peritonitis, Puerperal	---	---	---	---	---	---	---	---	---	---	---	---
Phrenitis	---	---	---	---	---	---	1	---	---	---	---	---
Piles	---	---	---	---	---	1	---	---	1	---	---	---
Pistol-shot	---	---	---	---	---	---	---	1	--	---	---	---
Pleurisy	---	---	2	---	1	1	1	---	3	3	1	---
"	---	---	2	---	---	---	1	---	1	2	1	---
"	---	---	---	---	1	1	---	---	2	1	---	---
Pleuro-Pneumonia	---	---	---	---	---	---	---	---	1	---	---	---
Pneumonia	189	15	9	9	29	26	35	40	51	21	9	8
"	103	9	3	5	17	20	21	32	34	15	7	2
"	86	6	6	4	12	6	14	8	17	6	2	6
Pneumonia, Typhoid	3	1	2	1	6	6	3	6	8	2	---	2
" "	3	---	---	---	3	2	2	4	5	1	---	---
" "	---	1	2	1	3	4	1	2	3	1	---	2
Poison	7	1	---	---	2	---	1	2	1	---	---	---
"	6	1	---	---	1	---	---	1	1	---	---	---
"	1	---	---	---	1	---	1	1	---	---	---	---
Polypus	---	---	---	---	---	1	---	---	---	---	---	---

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Totals	...	1	...	...	...	...	3	1	3	1	1	2	..	12	19	2	Premature Birth	12	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	...	...	...	..	2	1	1	...	...	1	..	5	8	...	" "	5	..	...	...	...	...	...	...	...	...	...	...
Females	...	1	...	...	...	...	1	...	2	1	1	1	..	7	11	2	" "	7	...	...	...	...	...	...	...	...	...	...	...
Males	...	...	1	...	...	...	...	...	...	...	...	...	..	1	...	...	Prostate, Disease of	...	...	...	...	...	...	...	...	...	1	...	...
Males	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Prostate, Enlargem't of	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	1	...	1	1	...	...	...	1	1	...	..	5	8	2	Puerperal Convulsions	...	...	...	1	2	2	...	...	...	...	...	...
Females	...	2	1	4	5	1	...	2	2	5	...	4	..	26	35	21	Puerperal Fever	...	...	...	1	17	8	...	...	...	...	...	...
Females	1	...	...	...	...	...	...	...	...	...	...	...	..	1	*1	...	Purpura	...	...	...	...	...	...	1	...	...	...	...	...
Males	...	...	...	...	...	...	...	...	1	...	...	1	..	2	1	1	Quinsy	1	...	...	...	...	...	...	...	1	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	2	"	...	...	...	...	...	...	...	...	...	...	...	...
Totals	2	...	...	3	2	3	...	1	3	1	4	1	1	21	20	19	Railroad Accident	...	...	...	2	7	2	5	2	3	...	...	...
Males	2	...	...	3	2	3	...	1	2	1	4	1	1	20	19	17	" "	...	...	...	1	7	2	5	2	3	...	...	...
Females	...	...	...	...	...	...	...	...	1	...	...	...	..	1	1	2	" "	...	...	...	1	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Rash	...	...	...	...	...	...	...	...	...	...	...	...
Females	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	Rachitis	...	...	...	...	...	...	...	...	...	...	...	...

Digitized by Google

Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Retention of Urine	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	2	---	---	---	---	---	1	---	1	1	--	5	2	---	Rheumatism of Heart	---	---	---	---	---	2	---	1	1	---	---	1
Males	---	---	1	---	---	---	---	---	1	---	1	1	--	4	2	---	" "	---	---	---	---	---	1	---	1	1	---	---	1
Females	---	---	1	---	---	---	---	---	---	---	---	---	--	1	---	---	" "	---	---	---	---	---	1	---	---	---	---	---	---
Totals	---	2	1	2	2	2	2	1	1	---	2	---	--	15	14	---	Rheumatism, Inflam'ry	1	2	1	3	---	1	1	4	2	---	---	---
Males	---	1	1	1	1	2	1	---	1	---	---	---	--	8	3	---	" "	---	2	1	2	---	1	---	1	1	---	---	---
Females	---	1	---	1	1	---	1	1	---	---	2	---	--	7	11	---	" "	1	---	---	1	---	---	1	3	1	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	1	--	1	---	---	Rheumatism, Sciatic	---	---	---	---	---	---	1	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	" "	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	2	2	5	2	2	3	1	5	---	4	4	--	30	27	49	Rheumatism	3	2	3	2	3	1	5	3	3	4	1	---
Males	---	1	2	2	---	2	1	---	3	---	1	2	--	14	16	31	"	2	1	2	1	2	1	1	---	2	2	---	---
Females	---	1	---	3	2	---	2	1	2	---	3	2	--	16	11	18	"	1	1	1	1	1	---	4	3	1	2	1	---
Totals	1	---	3	2	3	1	---	1	3	1	1	2	--	18	---	---	Scald	17	1	---	---	---	---	---	---	---	---	---	---
Males	1	---	2	1	---	---	---	1	3	---	1	2	--	11	---	---	"	11	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	1	1	3	1	---	---	---	1	---	---	--	7	---	---	"	6	1	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	1	---	---	---	---	---	---	---	--	1	---	---	Scald Head	1	---	---	---	---	---	---	---	---	---	---	---
Totals	54	55	88	59	52	40	34	51	53	47	69	91	3	696	852	252	Scarlet Fever	408	198	50	21	8	4	2	1	---	---	---	4
Males	25	29	43	30	20	18	13	30	22	22	27	44	1	324	433	130	" "	207	83	17	6	7	1	1	---	---	---	---	2
Females	29	26	45	29	31	22	21	21	31	25	42	47	2	371	419	122	" "	201	115	32	15	1	3	1	1	---	---	---	2
Unknown	---	---	---	---	1	---	---	---	---	---	---	---	--	1	---	---	" "	---	---	1	---	---	---	---	---	---	---	---	---
Males	---	---	---	1	---	---	---	---	---	---	---	---	--	1	---	---	Scirrhosis	---	---	---	---	---	---	1	---	---	---	---	---

a "Purpura Hæmorrhagica."

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Totals	1	---	4	---	2	5	2	6	2	1	5	9	1	38	60	55	Scrofula	15	4	4	---	3	1	4	---	3	3	1	---
Males	---	---	3	---	---	2	1	3	1	---	1	5	--	16	33	32	"	6	1	2	---	2	1	2	---	---	1	1	---
Females	1	---	1	--	2	3	1	3	1	1	4	4	1	22	27	23	"	9	3	2	---	1	---	2	---	3	2	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	1	--	1	1	1	Scurvy	1	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	---	---	---	---	1	---	1	---	---	---	--	2	---	---	Sea Sickness	2	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	1	---	---	---	---	---	--	1	---	---	" "	1	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	1	---	---	---	--	1	---	---	" "	1	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	1	---	---	---	--	1	---	---	"Shot Himself"	---	---	---	---	---	1	---	---	---	---	---	---
Totals	3	---	1	1	1	4	2	3	5	3	9	41	--	73	9	42	Small-pox	14	7	5	5	13	11	8	3	1	---	1	5
Males	3	---	---	1	---	2	1	2	4	1	6	28	--	48	6	21	" "	11	3	2	---	9	9	7	1	1	---	1	4
Females	---	---	1	---	1	2	1	1	1	2	3	13	--	25	3	21	" "	3	4	3	5	4	2	1	2	---	--	---	1
Males	---	---	---	---	---	---	1	---	---	---	---	---	--	1	1	---	Sore Mouth	1	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	---	" "	---	---	---	---	--	---	---	---	---	---	---	---
Females	---	---	---	1	---	---	---	---	---	---	---	---	--	1	---	---	Sore Neck	---	--	---	---	1	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Spermatorrhea	---	---	---	---	---	---	---	---	---	---	---	---

Digitized by Google

Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Spina Bifida	---	---	---	---	---	---	---	---	---	---	--	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	2	" "	---	---	---	---	---	---	--	---	---	---	---	---
Females	---	1	---	---	---	---	---	---	---	---	---	---	--	1	.....	---	Spinal Fever	---	---	---	---	1	---	---	---	---	---	---	---
Totals	3	1	4	2	2	3	1	3	1	2	7	2	--	31	33	39	Spine Disease	9	1	3	4	5	4	1	3	1	---	---	---
Males	2	---	3	1	1	1	1	---	---	2	3	2	--	16	12	22	" "	4	1	2	2	3	2	---	2	---	---	---	---
Females	1	1	1	1	1	2	--	3	1	---	4	---	--	15	21	17	" "	5	---	1	2	2	2	1	1	1	---	---	---
Totals	---	---	---	---	---	---	---	---	2	---	---	---	--	2	5	---	Spine, Inflam. of	1	---	---	---	1	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	1	---	---	---	--	1	3	---	" "	1	---	---	---	---	---	---	--	---	---	---	---
Females	---	---	---	---	---	---	---	---	1	---	---	---	--	1	2	---	" "	---	---	---	---	1	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Spinal Cord, Inflam. of	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	---	Spleen Disease	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Spleen Enlargement	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	---	" "	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	1	---	---	---	---	---	---	---	---	--	1	.....	---	St. Anthony's Fire	1	---	---	---	---	---	---	---	---	---	---	---
Totals	16	20	25	19	27	20	18	20	15	32	22	32	2	268	226	129	Still-born	268	---	---	---	---	---	---	---	---	---	---	---
Males	10	13	14	13	14	10	11	13	10	20	16	17	--	161	125	64	"	161	---	---	---	---	---	---	---	---	---	---	---
Females	6	6	10	6	12	9	7	6	3	11	6	14	--	96	82	50	"	96	---	---	---	---	---	---	---	---	---	---	---
Unknown	---	1	1	---	1	1	---	1	2	1	--	1	2	11	19	15	"	11	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	1	2	---	---	---	6	---	1	4	---	--	14	16	11	Stomach Disease	---	---	---	---	---	---	1	4	6	2	---	1
Males	---	---	1	2	---	---	---	2	---	1	3	---	--	9	8	4	" "	---	---	---	---	---	---	1	4	3	1	---	---
Females	---	---	---	---	---	---	---	4	---	---	1	---	--	5	8	7	" "	---	---	---	---	---	---	---	---	3	1	---	1
Totals	1	1	3	1	2	2	2	3	1	4	2	2	--	24	23	15	Stomach, Inflam. of	5	1	1	1	1	4	3	1	3	3	1	---

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Males	---	---	1	1	1	1	1	2	---	2	---	---	--	9	11	5	Stomach, Inflam. of	3	1	---	---	---	1	3	---	---	---	1	---
Females	1	1	2	---	1	1	1	1	1	2	2	2	--	15	12	10	" "	2	---	1	1	1	3	---	1	3	3	---	---
Totals	---	---	---	---	---	---	---	---	1	---	1	---	--	2	3	1	Stomach, Ulceration of	1	---	---	---	---	---	---	---	---	1	---	---
Males	---	---	---	---	---	---	---	---	1	---	---	---	--	1	2	1	" "	1	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	1	---	--	1	1	---	" "	---	---	---	---	---	---	---	---	---	1	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Stone in Bladder	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	3	---	Strangulation	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Stricture of Urethra	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	1	---	---	---	1	---	---	---	1	---	---	--	3	5	---	Suddenly	2	---	---	---	---	1	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	1	---	---	--	1	5	---	"	---	---	---	---	---	1	---	---	---	---	---	---
Females	---	1	---	---	---	1	---	---	---	---	---	---	--	2	---	---	"	2	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	1	1	---	1	---	---	1	1	---	2	--	7	9	25	Suffocation	4	1	---	2	---	---	---	---	---	---	---	---
Males	---	---	---	1	---	---	---	---	1	1	---	2	--	5	4	14	"	2	1	---	2	---	---	---	---	---	---	---	---
Females	---	---	1	---	---	1	---	---	---	---	---	---	--	2	5	11	"	2	---	---	---	---	---	---	---	---	---	---	---

Digitized by Google

Totals	5	2	---	3	5	1	4	4	3	3	3	7	..	40	34	23	Suicide	---	---	1	3	7	7	4	7	7	3	---	1
Males	4	1	---	3	3	---	3	3	3	3	1	6	..	30	25	16	"	---	---	---	1	4	7	3	6	5	3	---	1
Females	1	1	---	---	2	1	1	1	---	---	2	1	..	10	9	7	"	---	..	1	2	3	---	1	1	2	---	---	---
Totals	---	---	1	1	---	1	1	2	---	---	---	---	..	6	7	2	Sunstroke	2	---	---	---	---	---	---	2	---	2	---	---
Males	---	---	1	1	---	1	1	1	---	---	---	---	..	5	7	2	"	1	---	---	---	---	---	---	2	---	2	---	---
Females	---	---	---	---	---	---	---	1	---	---	---	---	..	1	---	---	"	1	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	1	---	---	..	1	---	---	Surgical Operation	---	---	---	---	1	---	---	---	---	---	---	---
Totals	---	1	---	---	---	---	---	---	---	---	1	---	..	2	10	2	Syphilis	---	---	---	---	---	2	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	1	---	..	1	8	1	"	---	---	---	---	---	1	---	---	---	---	---	---
Females	---	1	---	---	---	---	---	---	---	---	---	---	..	1	2	1	"	---	---	---	---	---	1	---	---	---	---	---	---
Totals	---	1	1	1	1	---	2	3	---	---	1	2	..	12	9	8	Tabes Mesenterica	3	---	1	1	5	---	---	1	---	---	..	1
Males	---	---	1	---	1	---	2	---	---	---	1	1	..	6	5	3	" "	1	---	---	---	3	---	---	1	---	---	---	1
Females	---	1	---	1	---	---	---	3	---	---	---	1	..	6	4	5	" "	2	---	1	1	2	---	---	---	---	---	---	---
Females	---	---	---	---	1	---	---	---	---	---	---	---	.	1	---	---	Tape Worm	1	---	---	---	---	---	---	---	---	---	---	---
Totals	1	2	3	7	3	6	10	27	17	2	2	2	..	82	82	85	Teething	82	---	---	---	---	---	---	---	---	---	---	---
Males	1	1	1	3	---	3	7	12	10	---	2	2	..	42	42	40	"	42	---	---	---	---	---	---	---	---	---	---	---
Females	---	1	2	4	3	3	3	15	7	2	---	---	..	40	40	45	"	40	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	1	---	---	..	1	---	---	"Terror during Fire"	---	---	---	---	---	1	---	---	--	---	---	---
Males	---	---	---	---	---	---	---	---	---	1	---	---	..	1	---	---	Testicles, Enlarge'nt of	---	---	---	---	---	---	---	---	1	---	---	---
Males	---	---	---	---	---	---	---	1	1	---	--	---	..	2	5	8	Tetanus	---	---	---	1	---	1	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	..	---	---	2	"	---	---	---	---	---	---	---	---	---	---	---	---

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Totals	2	2	---	3	---	---	---	1	2	3	2	6	--	21	19	23	Throat Disease	12	2	2	---	---	3	---	1	---	---	---	1
Males	---	1	---	2	---	---	---	1	---	2	1	2	--	9	10	12	" "	6	1	---	---	---	1	---	1	---	---	---	---
Females	2	1	---	1	---	---	---	---	2	1	1	4	--	12	9	11	" "	6	1	2	---	---	2	---	---	---	---	---	1
Totals	---	1	---	---	---	2	2	---	1	1	---	---	--	7	20	5	Thrush	4	---	---	1	1	---	1	---	---	---	---	---
Males	---	---	---	---	---	---	1	---	1	---	---	---	--	2	12	3	"	2	---	---	---	---	---	---	---	---	---	---	---
Females	---	1	---	---	---	2	1	---	---	1	---	---	--	5	8	2	"	2	---	---	1	1	---	1	---	---	---	---	---
Females	---	---	---	1	---	---	1	---	---	---	---	---	--	2	---	---	Tumor in Bowels	1	---	---	---	---	---	1	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Tumor, Fibrous	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	1	---	---	---	---	---	---	---	---	---	--	1	---	---	Tumor on Head	---	---	---	---	---	---	1	---	---	---	---	---
Totals	---	---	1	---	1	---	---	1	---	---	---	---	--	3	2	---	Tumor on Liver	---	---	---	---	---	---	1	1	1	---	---	---
Males	---	---	1	---	---	---	---	1	---	---	---	---	--	2	1	---	" " "	---	---	---	---	---	---	1	---	1	---	---	---
Females	---	---	---	---	1	---	---	---	---	---	---	---	--	1	1	---	" " "	---	---	---	---	---	---	---	1	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Tumor on Neck	---	---	---	---	---	---	---	---	---	---	---	---
Totals	1	---	---	---	---	---	1	---	---	---	---	---	--	2	---	---	Tumor in Side	---	---	---	---	1	---	---	1	---	---	---	---

Digitized by Google

Males	1	---	---	---	---	---	---	---	---	---	---	---	--	1	---	---	" "	---	---	---	---	---	---	---	1	---	---	---	---
Females	---	---	---	---	---	---	1	---	---	---	---	---	--	1	---	---	" "	---	---	---	---	1	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	1	---	---	---	---	---	--	1	---	---	Tumor, Small of Back	1	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	1	---	---	---	1	---	---	---	1	---	--	3	---	---	Tumor in Stomach	---	---	---	---	---	2	---	---	1	---	---	---
Males	---	---	1	---	---	---	1	---	---	---	---	---	--	2	---	---	" "	---	---	---	---	---	1	---	---	1	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	1	---	--	1	---	---	" "	---	---	---	---	---	1	---	---	---	---	---	---
Males	---	1	---	---	---	---	---	---	---	---	---	---	--	1	---	---	Tumor on Throat	---	---	---	---	---	---	---	---	---	1	---	---
Totals	1	1	---	1	---	---	1	---	3	---	4	2	--	13	11	17	Tumor (unspecified)	1	---	---	---	1	3	1	2	4	---	1	---
Males	---	1	---	1	---	---	1	---	---	---	1	---	--	4	4	4	" "	1	---	---	---	---	---	---	2	---	---	1	---
Females	1	---	---	---	---	---	---	---	3	---	3	2	--	9	7	13	" "	---	---	---	---	1	3	1	---	4	---	---	---
Females	---	---	---	---	---	---	---	---	1	---	2	---	--	3	3	1	Turn of Life	---	---	---	---	---	---	2	---	1	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Ulceration of Throat	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	---	Ulceration of Uterus	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	1	1	---	---	--	2	3	7	Ulcers (unspecified)	1	---	--	---	---	1	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	3	5	" "	---	---	---	---	---	---	---	---	---	---	---	---
Totals	52	61	61	70	75	79	86	123	112	105	83	82	11	1000	1206	1264	Unknown	638	30	10	11	46	25	40	52	30	27	14	77
Males	35	28	35	42	42	40	51	68	60	55	48	47	8	559	643	655	"	369	16	6	2	9	14	20	32	18	13	12	48
Females	16	32	24	28	33	39	32	54	51	47	34	33	2	425	548	590	"	257	13	4	9	37	11	20	20	12	14	2	26
Unknown	1	1	2	---	---	---	3	1	1	3	1	2	1	16	15	19	"	12	1	---	---	---	---	---	---	---	---	---	3
Males	---	---	---	---	---	---	1	---	---	---	---	---	--	1	---	---	Uræmia	1	---	---	---	---	---	---	---	---	---	---	---
Females	1	---	---	---	---	---	---	---	1	---	---	---	--	2	---	---	Uterine Hemorrhage	---	---	---	--	---	2	---	---	---	---	---	---

Digitized by Google

TABLE XVII.—CONTINUED.—*Specified Causes of Death.*

SEX.	Months, 1871.													Years.			Causes of Death.	Ages.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.	1869.		Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Females	---	---	---	---	---	---	---	---	---	1	---	1	--	2	------	---	Uterine Tumor	---	---	---	---	1	1	---	---	---	---	---	---
Females	---	1	---	---	1	---	---	---	---	---	---	---	--	2	3	7	Uterus Disease	---	---	---	---	1	---	---	---	1	---	---	---
Females	---	1	---	1	---	---	---	1	1	1	1	---	--	6	9	4	Uterus, Inflam. of	---	---	---	---	3	2	1	---	---	---	---	---
Males	1	---	---	---	---	---	---	---	---	---	---	---	--	1	1	---	Vaccination	1	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Venereal Disease	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Ven'l Mortif. of Penis	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	---	Wen on Neck	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	--	1	---	---	---	---	---	---	---	--	1	------	---	"Whiskey"	---	---	---	---	---	---	1	---	---	---	---	---
Males	---	---	---	1	---	---	---	---	---	---	---	---	--	1	1	3	White Swelling	---	---	1	---	---	---	---	---	---	---	---	---
Females	---	---	---	---	---	---	---	---	---	---	---	---	--	---	2	1	" "	---	---	---	---	---	---	---	---	---	---	---	---
Totals	1	1	2	2	4	3	13	13	12	8	5	3	1	68	119	158	Whooping Cough	60	6	---	---	---	---	---	---	---	---	---	2
Males	---	1	2	1	3	1	4	7	5	3	4	---	1	32	55	78	" "	28	2	---	---	---	---	---	---	---	---	---	2
Females	1	---	---	1	1	2	9	6	7	5	1	3	--	36	64	80	" "	32	4	---	---	---	---	---	---	---	---	---	---
Totals	---	1	2	3	1	---	2	---	---	---	---	---	--	9	5	10	Worms	8	1	---	---	---	---	---	---	---	---	---	---

Digitized by Google

Males	---	---	2	1	---	---	---	---	---	---	---	---	--	3	3	5	"	3	---	---	---	---	---	---	---	---	---	---	---	---
Females	---	1	---	2	1	---	2	---	---	---	---	---	--	6	2	5	"	5	1	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	1	1	Wound	---	---	---	---	---	---	---	---	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	1	---	---	--	1	---	---	Wound in War	---	---	---	---	---	---	---	1	---	---	---	---	---
Males	---	---	---	---	---	---	---	---	---	---	---	---	--	---	---	1	Wound in War of 1812	---	---	---	---	---	---	---	---	---	---	---	---	---

Digitized by Google

TABLE XVIII.—*Order of Succession of Fifteen Principal Causes of Death, exhibiting for each Specified Cause, by Sex, the Number of Deaths, and Per Cent. of Deaths from each Cause to Deaths from All Causes, for the year ending December 31, 1871.*

Order.	Specified Causes.	Number of Deaths.			Pr. ct. from each cause to Deaths from all causes.		
		Total.	Males.	Females.	Total.	Males.	Females.
1	Consumption	1,808	685	668	18.39	12.24	14.83
2	Scarlet Fever	[a] 696	324	871	7.15	6.24	8.24
3	Pneumonia	441	268	173	4.53	5.16	3.84
4	Old Age	372	179	193	3.82	3.45	4.29
5	Fever, Typhoid	357	192	165	3.67	3.70	3.66
6	Casualty	246	216	30	2.53	4.16	.67
7	Heart Disease	230	126	104	2.36	2.43	2.31
8	Diarrhea [b]	216	116	100	2.22	2.24	2.22
9	Brain, Inflammation of	215	113	102	2.21	2.18	2.27
10	Dropsy	210	86	124	2.16	1.66	2.75
11	Bowels, Inflammation of	184	100	84	1.89	1.93	1.87
12	Brain Disease	173	92	81	1.78	1.77	1.80
13	Dysentery [b]	173	87	86	1.77	1.66	1.91
14	Croup	153	83	70	1.57	1.60	1.55
15	Lung Disease	152	83	69	1.56	1.60	1.53
	Total	[a] 5,121	2,700	2,420	52.64	52.02	53.74
	All causes	[c] 9,728	5,190	4,503	100.00	100.00	100.00

[a] Includes one of unknown sex.
[b] Includes acute and chronic.
[c] Includes 35 of unknown sex.

A very large proportion of all the deaths are attributed to a comparatively small number of diseases. More than half of all the deaths returned for the year 1871 resulted from the fifteen causes specified in Table XVIII.

The order of succession, or relative number and proportion of deaths from the several diseases, is not the same as for the year 1870, and yet it is not extremely dissimilar. Consumption is first

Digitized by Google

as usual, and Scarlet Fever is next, as it was for 1870, although the number of deaths returned from this disease was 156 less in 1871 than in 1870. There can be no doubt but that a very large proportion of the fatal cases of Scarlet Fever might have been postponed until a later period of life, when the chances for living through the disease might have been very much better. Of all diseases, this is believed to be one of the most contagious, and if the views just indicated are correct, very many of the 696 deaths are chargeable to the ignorance, apathy, and carelessness of physicians and householders who fail to comply with the excellent law of this State which provides that notice be given to the Local Board of Health whenever such diseases break out. If this law was generally observed, and every case was promptly isolated upon its first appearance, it would be entirely possible, at least in all rural districts, to protect children from contracting the disease until they were past the age when it proves so exceedingly fatal.

Digitized by Google

TABLE XIX.—*Deaths from Ten Specified Causes during the Year 1871, Exhibiting the Number of each Sex, Total Number in each Month, and at Different Periods of Age.*

SEX, MONTHS, AND AGES.		Causes of Death.									
		Cancer.	Cephalitis.	Croup.	Diarrhœa.	Diphtheria.	Dysentery.	Measles.	Scarlatina.	Typhoid Fever.	Whooping Cough.
Sex	Totals	105	215	153	198	121	172	67	696	357	68
	Males	48	113	83	100	53	86	38	324	192	32
	Females	57	102	70	98	68	86	29	371	165	36
	Unknown	-----	-----	-----	-----	-----	-----	-----	1	-----	-----
Months	January	4	12	18	2	11	4	5	54	16	1
	February	2	18	14	1	10	1	4	55	26	1
	March	12	18	16	4	9	2	5	68	25	2
	April	6	16	11	4	3	2	3	59	23	2
	May	8	12	11	4	2	2	5	52	25	4
	June	9	16	6	8	5	5	2	40	21	3
	July	8	16	5	41	10	21	4	34	15	13
	August	10	26	7	68	8	66	5	51	37	13
	September	11	24	10	36	21	43	4	53	59	12
	October	14	14	15	14	10	20	4	47	41	8
	November	11	20	16	5	15	3	3	69	34	3
	December	10	23	29	6	15	3	18	91	32	5
	Unknown	-----	-----	-----	-----	2	-----	-----	3	3	1
	Av. Month *	8.75	17.92	12.75	16.08	9.92	14.33	5.58	57.75	29.50	5.58
Ages	Under 5	1	150	135	168	63	130	54	408	43	60
	5 to 10	-----	16	16	7	37	7	4	198	35	6
	10 to 15	1	10	1	1	11	3	3	50	33	-----
	15 to 20	2	6	-----	1	5	1	-----	21	46	-----
	20 to 30	2	8	-----	3	1	3	3	8	67	-----
	30 to 40	10	7	-----	2	2	4	-----	4	29	-----
	40 to 50	15	5	-----	4	1	4	-----	2	30	-----
	50 to 60	22	9	-----	1	1	4	-----	1	27	-----
	60 to 70	32	1	-----	3	-----	6	-----	-----	20	-----
	70 to 80	18	-----	-----	2	-----	4	-----	-----	19	-----
	80 and over	-----	-----	-----	-----	-----	3	-----	-----	4	-----
	Unknown	2	3	1	1	-----	3	3	4	4	2

* Excluding deaths in unknown month.

Digitized by Google

TABLE XX.—*Percentage of Deaths during the Year ending December 31, 1871, from each of Ten Specified Causes to Deaths from all Causes; and Percentage of Each Sex, of Deaths in Each Month, and at Different Periods of Life, to Total Deaths from Each Specified Cause.*

Sex, Months, and Ages.		Causes of Death.									
		Cancer	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlatina.	Typhoid Fever.	Whooping Cough.
	Per cent of all causes	1.08	2.21	1.57	1.98	1.24	1.77	.69	7.15	3.67	.70
Sex	Males	45.71	52.56	54.24	51.81	43.80	50.00	56.71	46.55	54.06	47.06
	Females	54.29	47.44	45.75	48.19	56.19	50.00	43.28	53.80	46.22	52.94
	Unknown	-----	-----	-----	-----	-----	-----	-----	.14	-----	-----
Months	January	3.81	5.58	8.49	1.04	9.09	2.33	7.46	7.76	4.48	1.47
	February	1.90	8.37	9.15	.52	8.26	.58	5.97	7.90	7.28	1.47
	March	11.43	8.37	10.45	2.07	7.44	1.16	7.46	12.64	7.00	2.94
	April	5.71	7.44	7.18	2.07	2.48	1.16	11.94	8.48	6.44	2.94
	May	7.62	5.58	7.18	2.07	1.65	1.16	7.46	7.47	7.00	5.88
	June	8.57	7.44	3.92	4.15	4.13	2.91	2.99	5.75	5.88	4.41
	July	7.62	7.44	3.26	21.24	8.26	12.21	5.97	4.89	4.20	19.12
	August	9.52	12.09	4.57	35.23	6.61	38.37	7.46	7.33	10.86	19.12
	September	10.48	11.16	6.53	18.65	17.36	25.00	5.97	7.61	16.58	17.65
	October	13.33	6.51	9.80	7.25	8.26	11.62	5.97	6.75	11.48	11.76
	November	10.48	9.30	10.45	2.59	12.40	1.74	4.48	9.91	9.52	7.35
	December	9.52	10.70	18.95	8.11	12.40	1.74	26.87	13.15	8.96	4.41
	Unknown	-----	-----	-----	-----	1.65	-----	-----	.43	.84	1.47
	Av. Month [a]	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33
Ages	Under 5	.95	69.77	38.23	87.05	52.07	75.58	80.60	58.62	12.04	88.24
	5 to 10	-----	7.44	10.46	3.63	30.58	4.07	5.97	28.45	9.80	8.82
	10 to 15	.95	4.65	.65	.52	9.09	1.74	4.48	7.18	9.24	-----
	15 to 20	1.90	2.79	-----	.52	4.13	.58	-----	3.02	12.69	-----
	20 to 30	1.90	3.72	-----	1.55	.83	1.74	4.48	1.15	13.77	-----
	30 to 40	9.52	3.26	-----	1.04	1.65	2.33	-----	.57	8.12	-----
	40 to 50	14.29	2.33	-----	2.07	.83	2.33	-----	.29	8.40	-----
	50 to 60	20.95	4.19	-----	.52	.83	2.33	-----	.14	7.56	-----
	60 to 70	30.48	.47	-----	1.55	-----	3.49	-----	-----	5.60	-----
	70 to 80	17.14	-----	-----	1.04	-----	2.33	-----	-----	5.32	-----
	80 and over	-----	-----	-----	-----	-----	1.74	-----	-----	1.12	-----
	Unknown	1.90	1.40	.65	.52	-----	1.74	4.48	.57	1.12	2.94

[a] Excluding deaths in unknown month.

Tables XIX and XX are continued as heretofore. The ten diseases specified therein have also been studied as usual, and are taken up in alphabetical order.

Digitized by Google

Cancer.—One hundred and five deaths were returned as caused by Cancer. As is usually the case, there was an excess of females. The greatest number of deaths occurred in the autumn months, and a very large proportion of the deaths were of persons over forty years of age.

In 52 cases only was the locality of the disease stated. Of the 29 males, 21 had Cancer of the stomach, two of the face, and one each of the eye, lip, throat, lungs, abdomen, and bowels. Of the 23 females, 11 had Cancer of the breast, five of the stomach, two of the face, and one each of the head, mouth, liver, bowels, and uterus.

The writer's views of the nature of Cancer, and the indications for preventing deaths therefrom, were given at some length in the last Report, and will not, therefore, be repeated now.

Cephalitis.—For the year 1869 the proportion of the sexes was 53.98 per cent. males, 46.01 per cent. females. For the year 1870 it was almost precisely the reverse, being 46.35 per cent. males, and 53.64 per cent. females. For the year 1871 there was again an excess of males, the per cent. of the sexes being 52.56 males and 47.44 females.

The greatest number of deaths returned for any one month was 26 in August. For September 24 deaths were returned, and 23 were returned as having occurred in December.

Nearly 70 per cent. of the deaths from this disease were of children under five years of age.

Croup.—In 1871, as is usual with this disease in this State there were more deaths of males than of females, the per cent. being 54.24 males and 45.75 females. This is not far from the proportion of the sexes in deaths from all causes, that per cent. being 53.54 males and 46.46 females.

In 1871, as in 1869 and 1870, the greatest number of deaths returned for any one month was for December, and as in 1870, all deaths but one were of children under ten, and 88.+ per cent. under five years of age.

Digitized by Google

Considerable attention has been given, in the last two Reports, to a study of the relation between deaths from Croup and certain meteorological conditions existing at the same times. The writer has seen no reason for changing his views heretofore expressed, and which are based mainly upon the evidence collected in this State, and which leads to the conclusion that when there is less than the average number of deaths from Croup the atmosphere is warm and moist, while these conditions are not found to prevail when more than an average number of deaths occur from this disease.

As will be seen by Exhibit K, there was only one exception to the above proposition. The subject was treated at such length in the last Report, that only the evidence relative to the deaths in 1871 is here given.

Diphtheria is again studied in close connection with Croup.

Diphtheria.—According to the returns, more males than females died from this disease in 1871, as in 1870, differing in this particular from Croup. From tables XIX. and XX. it appears that Diphtheria is not so much a disease of childhood as is Croup, although about 52 per cent. of all deaths returned from this disease in 1871 were of children under five years of age. Like Croup, this disease seems to be more fatal in the cold months. The order of mortality by months may be seen in Exhibit M, as also the meteorological conditions prevailing in each month. It will be seen that there were only two exceptions to the rule that in months when the greatest number of deaths occurred from this disease the atmosphere was less than usually humid, and two exceptions to the rule that in months when *less* than the average number of deaths occurred the atmosphere was *more* than usually humid. The evidence does not appear to show so close a relation between these atmospheric conditions and deaths from Diphtheria, as between these conditions and deaths from Croup; but it is sufficiently marked in Diphtheria to warrant further investigation.

Digitized by Google

EXHIBIT K.—*Deaths in Michigan from Croup, by Months, during the year 1871, and some Meteorological Conditions existing at the same time.*

MONTHS IN ORDER, BY NUMBER OF DEATHS FROM CROUP, GREATEST NUMBER FIRST.	Deaths.		Thermometer, Fahrenheit; Mean of Three Daily Observations—at 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc. Monthly Averages.					
			Range.								
	Number.	Per Cent. of Total.	Daily.	From day to day, 2 P. M. to 2 P. M.	Temperature.	Rain-fall in inches.	Relative Humidity of Atmosphere; per cent. of Saturation.	Force or Pressure of Vapor in inches.	Weight, in grains, of Vapor in cubic foot of Air.[a]	Weight, in Troy ounces, of Vapor inhaled by one person in 24 hrs.[b]	Weight, in Troy ounces, of Vapor exhaled from Air Passages in 24 hrs. in excess of Vapor inhaled.[c]
Year 1871	158	100.00	16.52°	19.97°	47.93°	27.21	80	.315	3.56	2.23	9.46
More than an Average No. of Deaths. December	29	18.95	12.13°	15.35°	21.12°	1.76	86	.108	1.32	.83	10.85
March	16	10.46	14.42	19.26	38.18	3.91	83	.194	2.28	1.43	10.25
November	16	10.46	15.27	18.23	31.95	1.25	86	.160	1.89	1.18	10.50
October	15	9.80	18.39	21.90	53.91	1.43	72	.307	3.48	2.18	9.50
February	14	9.15	13.71	17.39	25.65	1.73	90	.132	1.53	.99	10.69
January	13	8.50	8.35	11.03	24.75	3.95	93	.135	1.63	1.02	10.66

Digitized by Google

Less than an Average No. of Deaths.	April	11	7.19	19.13	24.88	50.18	2.97	74	.261	3.00	[d] 1.88	9.80
	May	11	7.19	18.39	22.09	61.89	1.97	72	.405	4.58	2.88	8.85
	September	10	6.54	22.48	24.80	58.10	.79	78	.391	4.41	2.76	8.92
	August	7	4.58	18.55	21.74	71.19	1.42	78	.586	6.43	4.02	7.66
	June	6	3.92	18.83	21.60	68.21	2.93	74	.522	5.77	3.61	8.07
	July	5	3.27	18.61	21.48	70.60	3.10	77	.579	6.35	3.97	7.71
	Monthly Average	12.75	8.33	16.52[a]	19.97[a]	47.23[a]	2.27	80	.315	3.56	2.23	9.46

[a] Approximate,—calculated from Force of Vapor and Temperature combined.
[b] Calculated for 18 respirations per minute, of 20 cubic inches of air each.
[c] Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.
[d] Exception to the proposition that *more* than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and *vice versa*. It should be borne in mind that probably a *less* proportion of the deaths were returned for months in early part of the year.

The meteorological data for "Exhibits I, J, and K" were obtained from the Report of the State Board of Agriculture for the year 1871, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing. The calculations of Range of Temperature, and Weights of Vapor, have been made in this State Department.

Digitized by Google

EXHIBIT L.—*Deaths in Michigan from Croup and Diphtheria, by Months, during the Year 1871, and some Meteorological Conditions existing at the same time.*

Months in order by Number of Deaths from Croup and Diphtheria.		Deaths.		Thermometer,—Fahrenheit. Mean of three Daily Observations, 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc., Monthly Averages.				
				Range.							
		Number.	Per Cent. of Total.	Daily.	From Day to Day, 2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or pressure of Vapor in inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours, in excess of Vapor inhaled.[a]
Year 1871		272	100.00	16.52°	19.97°	47.98°	80	.315	3.56	2.23	9.46
More than Average No. of Deaths.	December	44	16.18	12.18°	15.35°	21.12°	86	.108	1.32	.83	10.85
	September	31	11.40	22.43	24.80	b 58.10	78	.391	4.41	c 2.76	8.92
	November	31	11.40	15.27	18.23	31.95	86	.160	1.89	1.18	10.50
	March	25	9.19	14.42	19.26	38.18	83	.194	2.28	1.43	10.25
	October	25	9.19	13.39	21.90	b 58.91	72	.307	3.48	2.18	9.50
	January	24	8.82	8.35	11.03	24.75	93	.135	1.63	1.02	10.66
	February	24	8.82	13.71	17.39	25.65	90	.132	1.58	.99	10.69
Less than Av. No. of Deaths.	July	15	5.51	18.61	21.48	70.60	77	.579	6.35	3.97	7.71
	August	15	5.51	18.55	21.74	71.19	78	.586	6.43	4.02	7.66
	April	14	5.15	19.13	24.83	50.13	74	.261	3.00	c 1.88	9.80
	May	13	4.78	18.39	22.09	61.39	72	.405	4.53	2.83	8.85
	June	11	4.04	18.83	21.60	68.21	74	.522	5.77	3.61	8.07
Monthly Average		22.67	8.33	16.52°	19.97°	47.98°	80	.315	3.56	2.23	9.46

[a] See foot-notes to Exhibit K, page 311.

[b] Exceptions to the rule that *more* than an average number of deaths from croup and diphtheria occurred in months in which the mean temperature was *less* than the average.

[c] Exceptions to the rule that *more* than an average number of deaths from croup and diphtheria occurred in months in which there was *less* than the average quantity of vapor inhaled.

Digitized by Google

EXHIBIT M.—*Deaths in Michigan from Diphtheria, by Months, during the Year 1871, and some Meteorological Conditions existing at the same time.*

Months in order by Number of Deaths from Diphtheria.		Deaths.		Thermometer,—Fahrenheit. Mean of three Daily Observations, 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc. Monthly Averages.				
				Range.							
		Number.	Per Cent. of Total.	Daily.	From Day to Day, 2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours.[a]	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours, in Excess of Vapor Inhaled.[a]
Year 1871		119	100.00	16.52°	19.97°	47.93°	80	.315	3.56	2.23	9.46
More than an Average No. of Deaths.	September	21	17.65	22.43°	24.80°	[b] 58.19°	78	.391	4.41	[c] 2.76	8.92
	November	15	12.61	15.27	18.23	31.95	86	.160	1.89	1.18	10.50
	December	15	12.61	12.13	15.35	21.12	86	.108	1.32	.83	10.85
	January	11	9.24	8.35	11.03	24.75	93	.135	1.63	1.02	10.66
	February	10	8.40	13.71	17.39	25.65	90	.132	1.58	.99	10.69
	July	10	8.40	18.61	21.48	[b] 70.60	77	.579	6.35	[c] 3.97	7.71
	October	10	8.40	18.39	21.90	[b] 53.91	72	.307	3.48	2.18	9.50
Less than Av. No. of Deaths.	March	9	7.56	14.42	19.26	[b] 38.18	83	.194	2.28	[c] 1.43	10.25
	August	8	6.72	18.55	21.74	71.19	78	5.86	6.43	4.02	7.66
	June	5	4.20	18.83	21.60	63.21	74	5.22	5.77	3.61	8.07
	April	3	2.52	19.13	24.83	50.13	74	2.61	3.00	[c] 1.88	9.80
	May	2	1.68	18.39	22.09	61.39	72	4.05	4.53	2.83	8.85
Average		9.92	8.33	16.52°	19.97°	47.93°	80	.315	3.56	2.23	9.46

[a] See foot-notes to "Exhibit K," page 311.
[b] Exceptions to the rule that *more* than an average number of deaths from diphtheria occurred in months in which the mean temperature was *less* than the average, and *vice versa*.
[c] Exceptions to the rule that *more* than an average number of deaths from diphtheria occurred in months in which there was *less* than the average quantity of vapor inhaled, and *vice versa*.

Digitized by Google

Diarrhea.—The deaths returned from this disease during the year 1871 were only about one-half as numerous as during 1870. The proportion of the sexes was about the same, the per cent. of females being slightly more than the average from all causes. The greatest number of deaths in one month was in August, and a large proportion of all the deaths occurred in July, August, and September.

About 87 per cent. of all the deaths were of children under five years of age.

Table XXI. differs from Tables XIX. and XX. by including 23 deaths from Chronic Diarrhea. This table shows that there is a very great difference in the mortality from this disease in different parts of the State. Being based upon one year's experience it should not be taken as conclusive, but it is not very different in this respect from the similar table for 1870. It will be seen that in the Southeastern Division the per cent. of deaths from diarrhea to deaths from all causes is about two times the average throughout the State, while in the Central Divisions of the State the proportion is less than the average.

Digitized by Google

TABLE XXI.—*Exhibiting for the State and for eleven Geographical Divisions of the State, during the Year 1871, the Number of Deaths returned as having occurred from Diarrhea and from Dysentery, and the Per Cent. of Deaths from each Disease to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.[a]	DIARRHEA. ACUTE & CHRONIC.		DYSENTERY. ACUTE & CHRONIC.	
	Number of Deaths 1871.	Per Cent. of Deaths from all Causes.	Number of Deaths 1871.	Per Cent. of Deaths from all Causes.
State	216	2.22	173	1.78
Upper Peninsula	3	.91	6	1.81
Northwestern	3	2.16	--------	--------
Northern	3	3.41	1	1.14
Northeastern	--------	--------	--------	--------
Western	19	2.08	24	2.63
Northern Central	3	2.08	15	10.42
Central	9	.55	31	1.88
Bay and Eastern	39	3.09	31	2.45
Southwestern	12	1.31	29	3.16
Southern Central	17	.82	23	1.11
Southeastern	108	5.00	13	.60

[a] For counties included in each Division see page 282.

Dysentery.—Compared with the previous year, a very smal number of deaths were returned from Dysentery in 1871. The proportion of deaths was the same for each sex. The greatest number of deaths occurred in August, September, July, and October, in the order named, which was the same order as in the previous year. The per cent. of deaths of children aged under five years was not quite as great from this disease as it was from Diarrhea, while the per cent. of deaths of those aged over fifty was a little larger. Table XXI. includes one death from Chronic Dysentery. It will be seen from this table that the greatest mortality from this disease was not in the same parts of the State as was the greatest mortality from Diarrhea.

Digitized by Google

Measles.—From this disease, in 1869, more deaths were returned of males than of females; in 1870 the reverse was true; and in 1871 there was again a greater proportion of males. In 1868, 1869, and 1870, the greatest number of deaths were returned for March. In 1871 more deaths were returned for December than for any other month. Even a larger proportion of the deaths than usual were of children under five years of age,—80.60 per cent.

Scarlatina.—The number of deaths returned from this disease was somewhat less than for the previous year, but still the number was very large. There were many more deaths of females than of males. The greatest mortality was in December, and the next greatest for any one month was in March. Of all deaths from this disease, 58.62 per cent. were of children aged under five, and 28.45 per cent. were of those aged between five and ten years.

This disease is generally regarded as highly contagious, and as one which usually attacks a person but once. The primary source of the contagion is not known, although several hypotheses have been advanced. Evidence upon the question as to whether this disease affects any of the lower animals is much needed. Thus far the disease has never been studied and observed with any thoroughness or success. It may be that there is a grand opportunity for some one to make some such discoveries as the transmission or modification of this disease by lower animals, and thus immortalize themselves, as did Jenner by substituting Vaccinia for Small-pox. The disease cannot be studied to the best advantage until records of all cases of the disease are obtained, as well as records of deaths. Too much cannot be said of the importance of this subject. The present law of this State requires that all cases of such diseases shall be reported to the Local Board of Health, whose duty it is to protect the people within their jurisdiction from the spread of such diseases. If the people will see that all cases are promptly reported to the Board of Health, and will demand of their

Digitized by Google

Boards of Health protection from Scarlet Fever as they now demand of them protection from Small-pox, a great saving of human life will result.

Typhoid Fever.—From this disease the number of deaths returned was much less than in the previous year. The proportion of the sexes was the reverse of what it was in the preceding year, there being a larger number of males than of females. The order of mortality by months was: September, October, August, November, December, February, March, May, April, June, January, and July. All ages suffered from this disease, and 67 deaths were of persons aged twenty to thirty years.

Whooping Cough.—Only 68 deaths were returned from Whooping Cough, not quite one-half as many as during 1870. There were more females than males. Nearly all deaths were of children under five years of age, although six were returned as between the ages of five and ten years.

This is another disease where it is probable that many deaths might be prevented by isolation, as the disease is not believed to be so fatal after the first few years of life.

Casualties.—Tabulated under this head are 246 deaths returned as having occurred during the year 1871. This is quite a large increase over the number returned for any previous year. Included in this number are deaths resulting from falling trees, runaway horses, boiler explosions, kerosene oil, etc., etc. Many of the causes specified were quoted in the last Report, and nearly all those then quoted are found again represented in the returns for 1871.

Of the 246 deaths from the various violent causes tabulated under this head, only 30 were females.

Consumption.—This disease is studied more at length because of its importance. For the year 1871, 1,303 deaths, or 13.39 per cent. of all deaths returned, were attributed to this disease. As heretofore pointed out in these reports, deaths from Consumption and from Pneumonia seem to be correlated

Digitized by Google

in such manner that conditions tending to increase the deaths from one tend to decrease the deaths from the other disease. For the year 1870 the deaths returned from Consumption were increased over those for 1869, while the deaths returned from Pneumonia were decreased. For the year 1871 the reverse is true, there being 148 less deaths returned from Consumption in 1871 than in 1870, and 65 more deaths from Pneumonia. Because of this correlation these two diseases are studied together. In last Report the subject was very thoroughly exhibited, as it applied to per cent. of deaths to population in the several parts of the State. Examination in this particular is omitted in this Report, but material is given in tables and exhibits which will enable one to study the subject in its relations to sex, age, locality, meteorological conditions, etc., and the evidence of such a correlation as is mentioned above continues strong so far as relates to all these conditions, excepting perhaps age, which cannot be studied to the best advantage until we can know the per cent. of deaths to inhabitants at each age from each of these diseases.

EXHIBIT N.—*By Sex, the Number of Deaths in Michigan from Consumption during the year 1871, by Months Equalized to Uniform Length of 30.44 days each; and also the Average Numbers Per Month (Deaths in Unknown Months and of persons of Unknown Sex Excluded).*

	Year.	Months of Equal Length.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Average.
Totals.....	* 1,286	73	84	108	117	122	110	102	115	116	103	106	130	107.17
Males.....	627	34	39	53	60	58	50	55	58	54	47	50	59	52.25
Females.....	659	39	45	55	57	64	60	47	57	62	56	46	71	54.92

* Deaths from consumption in unknown month excluded.

Digitized by Google

TABLE XXII.—*Correlation of Consumption and Pneumonia. Deaths from Consumption and Pneumonia in Michigan during the Year 1871, by Months, Exhibiting the Total Number, Number of each Sex, Per Cent. of Total, and Excess of each Sex.*

MONTHS.	CONSUMPTION.								PNEUMONIA.							
	NUMBER.			Per Cent. of Deaths in Each Month to Total for Year.[a]	PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.				NUMBER.			Per Cent. of Deaths in Each Month to Total for Year.[a]	PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.			
							EXCESS.								EXCESS.	
	Males.	Females.	Total.		Males.	Females.	Males.	Females.	Males.	Females.	Total.		Males.	Females.	Males.	Females.
Year 1871	635	668	1,303	.....	48.73	51.27	.....	2.54	268	173	441	.....	60.77	39.23	21.54	.....
January	b 35	b 40	b 75	5.83	46.67	53.33	c	6.66	b 26	b 15	b 41	9.32	63.41	36.59	26.82	c
February	b 36	b 42	b 78	6.07	46.15	53.85	c	7.70	b 32	b 18	b 50	11.36	64.00	36.00	28.00	c
March	54	56	110	8.55	49.09	50.91	c	1.82	37	27	64	14.54	57.81	42.19	15.62	c
April	59	56	115	8.94	51.30	48.70	2.60	.....	24	17	41	9.32	58.54	41.46	17.08	.....
May	b 59	b 65	b 124	9.64	47.58	52.42	c	4.84	b 17	b 10	b 27	6.14	62.96	37.04	25.92	c
June	49	b 59	b 108	8.40	45.37	54.63	c	9.26	13	b 5	b 18	4.09	72.22	27.78	44.44	c

[a] Deaths in unknown month excluded.
[b] *Less* than the average number of deaths from consumption, and *more* than the average from pneumonia, or *vice versa*.
[c] Nine out of twelve months in which there was an excess of deaths of one sex from consumption, and of the opposite sex from pneumonia.

Digitized by Google

TABLE XXII.—CONTINUED.—*Correlation of Consumption and Pneumonia.*

MONTHS.	CONSUMPTION.								PNEUMONIA.							
	NUMBER.			Per Cent. of Deaths in each Month to Total for Year.[a]	PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.				NUMBER.			Per Cent. of Deaths in Each Month to Total for Year.[a]	PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.			
							EXCESS.								EXCESS.	
	Males.	Females.	Total.		Males.	Females.	Males.	Females.	Males.	Females.	Total.		Males.	Females.	Males.	Females.
July	[b] 56	48	104	8.09	53.85	46.15	7.70	[c]	[b] 8	9	17	3.86	47.06	52.94	[c]	5.88
August	[b] 59	[b] 58	[b] 117	9.10	50.42	49.57	.85	.....	[b] 12	[b] 7	[b] 19	4.32	63.16	36.84	26.32	.....
September	53	[b] 61	114	8.86	46.49	53.51	[c]	7.02	25	[b] 13	38	8.64	65.79	34.21	31.58	[c]
October	48	[b] 57	105	8.16	45.71	54.29	[c]	8.58	18	[b] 10	28	6.36	64.29	35.71	28.58	[c]
November	[b] 59	[b] 45	104	8.09	56.73	43.27	13.46	.....	[b] 18	[b] 16	34	7.73	52.94	47.06	5.88	.....
December	60	72	132	10.26	45.45	54.55	[c]	9.10	37	26	63	14.32	58.73	41.27	17.46	[c]
Unknown	8	9	17	.....	47.06	52.94	.....	5.88	1	.....	1	.....	100.00	.....	100.00	.....
Average	52.25	54.92	107.17	8.33	48.75	51.25	.....	2.50	22.25	14.42	36.67	8.33	60.68	39.32	21.36	.....

[a] Deaths in unknown month excluded.
[b] *Less* than the average number of deaths from consumption, and *more* than the average from pneumonia, or *vice versa*.
[c] Nine out of twelve months in which there was an excess of deaths of one sex from consumption, and of the opposite sex from pneumonia.

Digitized by Google

EXHIBIT O.—*Deaths from Consumption in Michigan during the Year 1871, and some Meteorological Conditions Existing at the same time.*

Months in order by Number of Deaths from Consumption.	Deaths.		Thermometer — Fahrenheit. Mean of 3 Daily Observations, 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc. Monthly Averages.				
			Range.							
	Number.	Per Cent. of Total.	Daily.	From Day to Day, 2 P. M. to 2 P. M.	Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Ounces, Troy, of Vapor Inhaled by one Person in 24 hours.[a]	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours, in Excess of Vapor Inhaled.[a]
Year 1871	1,286	100.00	16.52°	19.97°	47.93°	80	.315	3.56	2.28	9.46
More than an Average Number of Deaths. December	132	10.26	12.13°	15.35°	b 21.12°	86	.108	1.32	c .88	10.95
May	124	9.64	18.39	22.09	61.39	72	.405	4.53	2.83	8.85
August	117	9.10	18.55	21.74	71.19	78	.586	6.43	4.02	7.66
April	115	8.94	19.13	24.83	50.13	74	.261	3.00	c 1.88	9.80
September	114	8.86	22.43	24.80	58.10	78	.391	4.41	2.76	8.22
March	110	8.55	14.42	19.26	b 38.18	88	.194	2.28	c 1.43	10.25
June	108	8.40	18.93	21.60	b 68.21	74	.522	5.77	3.61	8.07
Less than an Average No. of D'ths. October	105	8.16	18.39	21.90	b 53.91	72	.307	3.48	2.18	9.50
July	104	8.09	18.61	21.48	b 70.60	77	.579	6.35	c 3.97	7.71
November	104	8.09	15.27	18.23	31.95	86	.160	1.89	1.18	10.50
February	78	6.07	13.71	17.39	25.65	90	.132	1.58	.99	10.69
January	75	5.83	8.35	11.08	24.75	93	.135	1.63	1.02	10.66
Average Month	107.17	8.33	16.52°	19.97°	47.93°	80	.315	3.56	2.28	9.46

[a] See foot-notes to "Exhibit K," page 311.

[b] Exceptions to the rule that the temperature was higher than the average in months when *more* than the average number of deaths from consumption occurred, and *vice versa*.

[c] Exceptions to the rule that *more* than an average amount of vapor was inhaled in months in which there was *more* than an average number of deaths from consumption, and *less* than the average amount in months in which *less* than the average number of deaths occurred.

Digitized by Google

EXHIBIT P.—*Deaths from Pneumonia in Michigan during the Year 1871 and some Meteorological Conditions existing at the same time.*

Months in Order by Number of Deaths from Pneumonia.		Deaths.		Thermometer—Fahrenheit. Mean of 3 Daily Observations, 7 A. M., 2. P. M., and 9. P. M.			Humidity of Atmosphere, etc. Monthly averages.				
				Range.							
		Number.	Per Cent. of Total.	Daily.	From Day to Day, 2 P. M. to 2 P. M.	Temperature.	Relative Humidity or Per Cent. of Saturation.	Force or Pressure of Vapor in inches.	Weight, in Grains, of Vapor in Cubic Foot of Air.[a]	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours.[a]	Weight in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours in excess of Vapor Inhaled.[a]
Year 1871		440	100.00	16.52°	19.97°	47.98°	80	.315	3.56	2.23	9.46
More than an Average No. of Deaths.	March	64	14.54	14.42°	19.26°	38.18°	83	.194	2.28	1.43	10.25
	December	63	14.32	12.13	15.35	21.12	86	.108	1.32	.83	10.85
	February	50	11.36	13.71	17.39	25.65	90	.132	1.58	.99	10.69
	January	41	9.32	8.35	11.03	24.75	93	.135	1.63	1.02	10.66
	April	41	9.32	19.13	24.83	[b] 50.13	74	.261	3.00	1.88	9.80
	September	38	8.64	22.43	24.80	[b] 58.10	78	.391	4.41	[c] 2.76	8.92
Less than an Average No. of Deaths.	November	34	7.73	15.27	18.28	[b] 31.95	86	.160	1.89	[c] 1.18	10.50
	October	28	6.36	18.39	21.90	53.91	72	.307	3.48	[c] 2.18	9.50
	May	27	6.14	18.39	22.09	61.39	72	.405	4.53	2.83	8.85
	August	19	4.32	18.55	21.74	71.19	78	.586	6.43	4.02	7.66
	June	18	4.09	18.83	21.60	68.21	74	.522	5.77	3.61	8.07
	July	17	3.86	18.61	21.48	70.60	77	.579	6.35	3.97	7.71
Average Month		36.67	8.33	16.52°	19.97°	47.98°	80	.315	3.56	2.23	9.46

[a] See foot-notes to "Exhibit K," page 311.

[b] Exceptions to the rule that the temperature was greater than the average in months in which *less* than the average number of deaths from Pneumonia occurred, and *vice versa*.

[c] Exceptions to rule that *more* than an average amount of vapor was inhaled in months in which there was *less* than an average number of deaths from Pneumonia, and *vice versa*.

Digitized by Google

TABLE XXIII.—*Correlation of Consumption and Pneumonia.—Exhibiting the Number and Per Cent. of Deaths of each Sex, the difference between the Sexes, and the Per Cent. of Total Deaths at each Period of Age from Consumption and Pneumonia in Michigan during the Year 1871.*

AGE.	CONSUMPTION.								PNEUMONIA.							
	NUMBER.			Per Cent. of Deaths at each Age to Deaths at all Ages.[a]	PERCENTAGE OF THE SEXES. (UNKNOWN SEX EXCLUDED.)				NUMBER.			Per Cent. of Deaths at each Age to Deaths at all Ages.[a]	PERCENTAGE OF THE SEXES.			
							EXCESS.								EXCESS.	
	Males.	Females.	Total.		Males.	Females.	Males.	Females.	Males.	Females.	Total.		Males.	Females.	Males.	Females.
All Ages	635	668	1,303	.....	48.73	51.27	.....	2.54	263	178	441	.....	60.77	39.23	21.54	.....
Under 5	49	44	93	7.27	52.69	47.31	5.38	c	103	86	189	43.65	54.50	45.50	9.00	c
5 to 10	8	11	19	1.48	42.11	57.89	.....	15.78	9	6	15	3.46	60.00	40.00	20.00	.....
10 to 15	13	11	24	1.88	54.17	45.83	8.34	c	3	6	9	2.08	33.33	66.67	c	33.34
15 to 20	b 38	b 79	b 117	b 9.14	32.48	67.52	.....	35.04	b 5	b 4	b 9	b 2.08	55.56	44.44	11.12	.....
20 to 30	119	206	325	b 25.39	36.62	63.38	.....	26.76	17	12	29	b 6.70	58.62	41.38	17.24	.....

a Deaths at unknown ages excluded.
b *More* than an average number and per cent. of deaths from Consumption, and *less* than an average number and per cent. of deaths from Pneumonia, and *vice versa*.
c *More* than an average proportion of males from Consumption, and *less* than an average proportion of males from Pneumonia, and *vice versa*.

Digitized by Google

TABLE XXIII.—Continued.—*Correlation of Consumption and Pneumonia.*

Age.	Consumption.								Pneumonia.							
	Number.			Per Cent. of Deaths at each Age to Deaths at all Ages.[a]	Percentage of the Sexes. (Unknown Sex Excluded.)				Number.			Per Cent. of Deaths at each Age to Deaths at all Ages.[a]	Percentage of the Sexes.			
							Excess.								Excess.	
	Males.	Females.	Total.		Males.	Females.	Males.	Females.	Males.	Females.	Total.		Males.	Females.	Males.	Females.
30 to 40	116	[b] 132	248	[b] 19.38	46.77	53.23	[e]	6.46	20	[b] 6	26	[b] 6.00	76.92	23.08	53.84	[e]
40 to 50	93	56	149	[b] 11.64	62.42	37.58	24.84	[e]	21	14	35	[b] 8.08	60.00	40.00	20.00	[e]
50 to 60	79	49	128	10.00	61.72	38.28	23.44	.....	32	8	40	9.24	80.00	20.00	60.00	.....
60 to 70	[d] 67	38	105	[b] 8.20	63.80	36.19	27.61	.....	[d] 34	17	51	[b] 11.78	66.67	33.33	33.34	.....
70 to 80	32	30	62	4.84	51.61	48.39	3.22	.....	15	6	21	4.85	71.43	28.57	42.86	.....
80 and over	7	3	10	.78	70.00	30.00	40.00	.....	7	2	9	2.08	77.78	22.22	55.56	.....
Unknown	14	9	23	1.80	60.87	39.13	21.74	[e]	2	6	8	1.85	25.00	75.00	[e]	50.00
Average [c]	34.50	36.61	71.11	5.55	48.52	51.48	.....	2.96	14.78	9.28	24.06	5.55	61.43	38.57	22.86	.....

[a] Deaths at unknown ages excluded.
[b] *More* than an average number and per cent. of deaths from Consumption, and *less* than an average number and per cent. of deaths from Pneumonia, and *vice versa*.
[c] Of 18 periods of 5 years each, unknown ages excluded.
[d] *Less* than an average number of deaths of males from Consumption, and *more* than an average number of deaths of males from Pneumonia.
[e] *More* than an average proportion of males from Consumption, and *less* than an average proportion of males from Pneumonia, and *vice versa*.

Digitized by Google

TABLE XXIV.—*Exhibiting for the State and Eleven Geographical Divisions, in 1871, by Sex, the Number of Deaths from All Causes, from Consumption, from Pneumonia, and from Typhoid Fever; also the Per Cent. of Deaths from Consumption, Pneumonia, and Typhoid Fever, to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.[a]	SEX.	All Causes.	Consumption.		Pneumonia.		Typhoid Fever.	
			No. of Deaths.	Per Cent. to Deaths from all Causes.	No. of Deaths.	Per Cent. to Deaths from all Causes.	No. of Deaths.	Per Cent. to Deaths from all Causes.
State[b]	Total	9,728	1,303	13.39	441	4.53	357	3.67
	Males	5,190	635	12.24	268	5.16	192	3.70
	Females	4,503	668	14.83	173	3.84	165	3.66
	Unknown	35	------	------	------	------	------	------
Upper Peninsula	Total	331	26	7.85	5	1.51	8	2.42
	Males	192	15	7.81	3	1.56	6	3.13
	Females	139	11	7.91	2	1.44	2	1.44
Northwestern	Total	139	7	[c] 5.04	8	[c] 5.76	6	4.32
	Males	65	3	4.62	5	7.69	4	6.15
	Females	74	4	5.41	3	4.05	2	2.70
Northern	Total	88	9	10.23	1	1.14	------	------
	Males	54	6	11.11	1	1.85	------	------
	Females	34	3	8.82	------	------	------	------
Northeastern	Total	48	6	[c] 12.50	3	[c] 6.25	5	10.42
	Males	33	3	9.09	2	6.06	4	12.12
	Females	15	3	20.00	1	6.67	1	6.67
Western	Total	913	118	[c] 12.92	45	[c] 4.93	34	3.72
	Males	498	53	10.64	26	5.22	25	5.02
	Females	410	65	15.85	19	4.63	9	2.20
	Unknown	5	------	------	------	------	------	------

[a] For counties included in each division see page 282.
[b] For counties and townships from which no returns of deaths in 1871 were received, see Exhibit H, pages 204 to 206; for those in which no deaths occurred, see Exhibit I, page 207.
[c] More than an average per cent. of deaths from consumption, and less than an average per cent. of deaths from pneumonia, or *vice versa*. This is the case in seven out of the eleven geographical divisions.

Digitized by Google

TABLE XXIV.—CONTINUED.

GEOGRAPHICAL DIVISIONS.	SEX.	All Causes.	Consumption. No. of Deaths.	Consumption. Per Cent. to Deaths from all Causes.	Pneumonia. No. of Deaths.	Pneumonia. Per Cent. to Deaths from all Causes.	Typhoid Fever. No. of Deaths.	Typhoid Fever. Per Cent. to Deaths from all Causes.
Northern Central	Total	144	24	*16.67	4	*2.78	9	6.25
	Males	77	8	10.39	4	5.19	7	9.09
	Females	67	16	23.88	.....	.....	2	2.99
Central	Total	1,649	249	15.10	95	5.76	62	3.76
	Males	838	105	12.53	51	6.11	28	3.34
	Females	809	144	17.80	44	5.44	34	4.20
	Unknown	2	.....	.....	.....	.....	.....	.....
Bay and Eastern	Total	1,264	141	11.16	55	4.35	31	2.45
	Males	682	76	11.14	31	4.55	13	1.91
	Females	576	65	11.28	24	4.17	18	3.12
	Unknown	6	.....	.....	.....	.....	.....	.....
Southwestern	Total	919	117	*12.73	52	*5.66	43	4.68
	Males	475	52	10.95	33	6.95	22	4.63
	Females	439	65	14.81	19	4.33	21	4.78
	Unknown	5	.....	.....	.....	.....	.....	.....
Southern Central	Total	2,073	300	*14.47	91	*4.39	105	5.07
	Males	1,078	136	12.62	53	4.92	53	4.92
	Females	988	164	16.60	38	3.85	52	5.26
	Unknown	7	.....	.....	.....	.....	.....	.....
Southeastern	Total	2,160	306	*14.17	82	*3.80	54	2.50
	Males	1,198	178	14.86	59	4.92	30	2.50
	Females	952	128	13.45	23	2.42	24	2.52
	Unknown	10	.....	.....	.....	.....	.....	.....

* More than an average per cent. of deaths from consumption and less than an average per cent. of deaths from pneumonia, or *vice versa*. This is the case in seven out of the eleven geographical divisions.

Digitized by Google

TABLE XXV.—*Exhibiting for the State and by Counties, for the year 1871, the Number of Deaths from All Causes, from Consumption, from Pneumonia, and from Typhoid Fever; also, the Per Cent. of Deaths from Consumption, Pneumonia, and Typhoid Fever, to Deaths from All Causes.*

STATE AND COUNTIES.	All Causes.	Consumption.		Pneumonia.		Typhoid Fever.	
		Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.
State	9,728	1,303	13.39	441	4.53	357	3.67
Alcona	5	2	40.00	.....	.....	.....	.....
Allegan	278	24	8.63	11	3.96	16	5.76
Alpena	13	1	7.69	3	23.08	1	7.69
Antrim	10	1	10.00	1	10.00	.....	.....
Barry	164	29	17.68	11	6.71	8	4.88
Bay	209	22	10.53	9	4.31	9	4.31
Benzie	18	1	5.56	1	5.56	1	5.56
Berrien	274	44	16.06	21	7.66	9	3.28
Branch	174	24	13.79	13	7.47	10	5.75
Calhoun	327	45	13.76	9	2.75	15	4.59
Cass	135	19	14.07	8	5.93	9	6.67
Charlevoix	16	.....	.....	.....	.....	.....	.....
Cheboygan	12	1	8.33	.....	.....	.....	.....
Chippewa	23	.....	.....	.....	.....	.....	.....
Clare	9	2	22.22	.....	.....	.....	.....
Clinton	171	26	15.20	11	6.43	9	5.26
Delta	23	2	8.70	2	8.70	1	4.35
Eaton	210	38	18.10	11	5.24	5	2.38
Emmet	47	7	14.89	.....	.....	.....	.....
Genesee	207	31	14.98	13	6.28	10	4.83
Grand Traverse	25	2	8.00	4	16.00	2	8.00
Gratiot	79	6	7.59	1	1.27	4	5.06
Hillsdale	286	39	13.64	11	3.85	21	7.34
Houghton	110	8	7.27	1	.91	2	1.82

Digitized by Google

TABLE XXV.—CONTINUED.

COUNTIES.	All Causes.	Consumption.		Pneumonia.		Typhoid Fever.	
		Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.
Huron	106	8	7.55	2	1.89	1	.94
Ingham	192	25	13.02	10	5.21	5	2.60
Ionia	225	37	16.44	9	4.00	7	3.11
Iosco	23	3	13.04	.....	.....	1	4.35
Isabella	51	15	29.41	1	1.96	2	3.92
Jackson	235	32	13.62	16	6.81	10	4.26
Kalamazoo	248	49	19.76	6	2.42	13	5.24
Kalkaska	3	.....	.....	.....	.....	.....	.....
Kent	419	60	14.32	16	3.82	10	2.39
Keweenaw [a]	.....	.....	.....	.....	.....	.....	.....
Lake	5	1	20.00	.....	.....	.....	.....
Lapeer	125	21	16.80	11	8.80	2	1.60
Leelanaw	55	2	3.64	2	3.64	.....	.....
Lenawee	331	40	12.08	14	4.23	16	4.83
Livingston	125	23	18.40	12	9.60	3	2.40
Mackinac [a]	.....	.....	.....	.....	.....	.....	.....
Macomb	249	34	13.65	10	4.02	9	3.61
Manistee	35	1	28.57	1	2.86	3	8.57
Manitou	2	1	50.00	.....	.....	.....	.....
Marquette	154	10	6.49	1	.65	4	2.60
Mason	22	2	9.09	1	4.55	1	4.55
Mecosta	46	5	10.87	2	4.35	3	6.52
Menominee	3	.....	.....	.....	.....	1	33.33
Midland	38	2	5.26	1	2.63	4	10.53
Missaukee [b]	.....	.....	.....	.....	.....	.....	.....
Monroe	202	29	14.36	9	4.46	4	1.98
Montcalm	121	13	10.74	3	2.48	8	6.61

[a] No returns to this Department. [b] No deaths.

Digitized by Google

TABLE XXV.—CONTINUED.

COUNTIES.	All Causes.	Consumption.		Pneumonia.		Typhoid Fever.	
		Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.
Muskegon	136	12	8.82	6	4.41	7	5.15
Newaygo	29	7	24.14	1	3.45	.....	.....
Oakland	265	47	17.74	12	4.53	9	3.40
Oceana	70	11	15.71	3	4.29	.....	.....
Ontonagon	18	6	33.33	1	5.56	.....	.....
Osceola	26	.....	.....	1	3.85	1	3.85
Ottawa	206	25	12.14	17	8.25	15	7.28
Presque Isle	7	.....	.....	.....	.....	3	42.86
Saginaw	336	34	10.12	18	5.36	5	1.49
Sanilac	73	13	17.81	2	2.74	2	2.74
Schoolcraft	.....	.....	.....	.....	.....	.....	.....
Shiawassee	155	21	13.55	14	9.03	3	1.94
St. Clair	334	32	9.58	12	3.59	8	2.40
St. Joseph	175	25	14.29	11	6.29	11	6.29
Tuscola	81	11	13.58	1	1.23	4	4.94
Van Buren	232	30	12.93	12	5.17	9	3.88
Washtenaw	297	46	15.49	11	3.70	9	3.03
Wayne	1,444	196	13.57	51	3.53	32	2.22
Wexford	4	.....	.....	.....	.....	.....	.....

* No returns to this Department.

Digitized by Google

TABLE XXVI.—*Exhibiting for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths at all Ages, from Old Age, of all Aged 70 and Over, and of all Aged Under 5; also the Per Cent. of Deaths from Old Age, of all Aged 70 and Over, and of all Aged Under 5, to Deaths at all Ages, for the year 1871.*

STATE AND GEOGRAPHICAL DIVISIONS.[a]	Sex.	All Ages.	Old Age.		Aged 70 and Over.		Aged Under 5.	
			Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
State[b]	Total	9,728	372	3.82	955	9.82	3,843	39.50
	Males	5,190	179	3.45	557	10.73	2,097	40.40
	Females	4,503	193	4.29	398	8.84	1,717	38.13
	Unknown	35	.....	.....	.....	.....	29	82.86
Upper Peninsula	Total	331	7	2.11	12	3.63	185	55.89
	Males	192	1	.52	5	2.60	107	55.73
	Females	139	6	4.32	7	5.04	78	56.12
Northwestern	Total	139	2	1.44	3	2.16	67	48.20
	Males	65	1	1.54	2	3.08	30	46.15
	Females	74	1	1.35	1	1.35	37	50.00
Northern	Total	88	1	1.14	2	2.27	47	53.41
	Males	54	1	1.85	2	3.70	27	50.00
	Females	34	.....	.....	.....	.....	20	58.82
Northeastern	Total	48	1	2.08	1	2.08	28	58.33
	Males	33	.....	.....	.....	.....	21	63.64
	Females	15	1	6.67	1	6.67	7	46.67
Western	Total	912	27	2.96	67	7.34	387	42.39
	Males	498	13	2.61	41	8.23	212	42.57
	Females	410	14	3.41	26	6.34	171	41.71
	Unknown	5	.....	.....	.....	.....	4	80.00
Northern Central	Total	144	1	.69	5	3.47	65	45.14
	Males	77	1	1.30	3	3.90	34	44.16
	Females	67	.....	.....	2	2.99	31	46.27

[a] For counties included in each Division, see page 232.
[b] For counties and townships from which no returns of deaths in 1871 were received, see Exhibit H, page 204; for those in which no deaths occurred, see Exhibit I, page 207.

Digitized by Google

TABLE XXVI.—CONTINUED.

GEOGRAPHICAL DIVISIONS.[a]	SEX.	ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
			Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
Central	Total	1,649	58	3.52	183	11.10	601	36.45
	Males	888	29	3.47	106	12.65	317	37.83
	Females	809	29	3.58	77	9.52	283	34.98
	Unknown	2	.....	.....	.....	.....	1	50.00
Bay and Eastern	Total	1,264	48	3.80	97	7.67	571	45.17
	Males	682	25	3.67	56	8.21	312	45.75
	Females	576	23	3.99	41	7.12	253	43.92
	Unknown	6	.....	.....	.....	.....	6	100.00
Southwestern	Total	919	33	3.59	89	9.68	350	38.08
	Males	475	17	3.58	53	11.16	195	41.05
	Females	439	16	3.64	36	8.20	152	34.62
	Unknown	5	.....	.....	.....	.....	3	60.00
Southern Central	Total	2,078	100	4.82	300	14.47	611	29.47
	Males	1,078	47	4.36	177	16.42	340	31.54
	Females	988	53	5.36	123	12.45	266	26.92
	Unknown	7	.....	.....	.....	.....	5	71.45
Southeastern	Total	2,160	94	4.35	196	9.07	931	43.10
	Males	1,198	44	3.67	112	9.35	502	41.90
	Females	952	50	5.25	84	8.82	419	44.01
	Unknown	10	.....	.....	.....	.....	10	100.00

[a] For counties included in each Division, see page 232.

Digitized by Google

TABLE XXVII.—*Exhibiting, for the State and Counties of Michigan, the Average Age of Inhabitants of each Sex, in 1870, the Number of Deaths at all Ages, from Old Age, of all Aged 70 and Over, and of all Aged Under 5, in 1871; also the Per Cent. of Deaths from Old Age, of all Aged 70 and Over, and of all Aged Under 5, to Deaths at all Ages.*

STATE AND COUNTIES.	Average Age of Inhabitants June 1, 1870.		All Ages.	Old Age.		Aged 70 and Over.		Aged Under 5.	
	Males.	Females.	Number of Deaths.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
State ..... a	24.91	23.68	9,728	372	3.82	955	9.82	3,843	39.50
Alcona ..... a	23.26	20.65	5	----	------	----	------	3	60.00
Allegan ..... a	24.11	23.26	278	8	2.88	19	6.83	125	44.96
Alpena	23.46	21.04	13	----	------	----	------	6	46.15
Antrim	23.29	21.84	10	----	------	----	------	7	70.00
Barry	24.74	23.56	164	5	3.05	23	14.02	70	42.68
Bay ..... a	23.42	21.12	209	2	.96	7	3.35	119	56.93
Benzie ..... a	25.84	22.28	18	----	------	----	------	12	6.67
Berrien	24.71	23.26	274	8	2.92	22	8.03	93	33.94
Branch	26.67	25.58	174	9	5.17	24	13.79	53	30.46
Calhoun	26.42	25.48	327	15	4.59	45	13.76	96	29.36
Cass ..... a	24.93	24.06	135	5	3.70	18	13.33	51	37.78
Charlevoix ..... a	23.25	21.20	16	----	------	----	------	9	56.25
Cheboygan	22.37	20.62	12	----	------	1	8.33	5	41.67
Chippewa	23.35	23.17	23	4	17.39	5	21.74	8	34.78
Clare ..... a	27.50	21.96	9	----	------	----	------	4	44.44
Clinton	24.59	23.48	171	7	4.09	17	9.94	62	36.26
Delta ..... a	24.45	19.27	23	----	------	----	------	13	56.52
Eaton	25.43	24.05	210	2	.95	23	10.95	70	33.33
Emmet	23.33	24.00	47	1	2.13	1	2.13	26	55.32
Genesee	25.72	24.55	207	9	4.35	25	12.08	75	36.23
Grand Traverse ..... a	23.54	21.93	25	----	------	2	8.00	11	44.00
Gratiot	23.35	21.92	79	2	2.53	6	7.59	38	48.10
Hillsdale	26.51	25.29	286	15	5.24	43	15.03	81	28.32

a Except counties and townships not represented by returns of deaths; see Exhibit H, pages 204–206. The statement of average age is of all inhabitants of the State.

Digitized by Google

TABLE XXVII.—CONTINUED.

COUNTIES.	Average Age of Inhabitants June 1, 1870.		All Ages.	Old Age.		Aged 70 and Over.		Aged Under 5.	
	Males.	Females.	Number of Deaths.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
Houghton *	21.64	19.34	110	----	------	3	2.73	59	53.64
Huron *	22.49	20.21	106	3	2.83	5	4.72	47	44.34
Ingham	25.09	24.38	192	8	4.17	25	13.02	68	35.42
Ionia *	25.16	24.07	225	5	2.22	18	8.00	76	33.78
Iosco *	23.99	21.09	23	----	------	----	------	15	65.22
Isabella *	23.39	20.49	51	----	------	2	3.92	23	45.10
Jackson	26.71	24.99	235	19	8.09	44	18.72	65	27.66
Kalamazoo	25.94	25.10	248	6	2.42	21	8.47	78	31.45
Kalkaska *	24.38	18.83	3	----	------	----	------	------	------
Kent	25.32	24.00	419	14	3.34	42	10.02	182	43.44
Lake	24.01	20.63	5	----	------	----	------	2	40.00
Lapeer	24.57	23.10	125	8	6.40	15	12.00	46	36.80
Leelanaw *	23.40	21.64	55	1	1.82	1	1.82	28	50.91
Lenawee	27.03	26.15	331	13	3.93	49	14.80	106	32.02
Livingston	26.01	24.93	125	6	4.80	25	20.00	34	27.20
Macomb	25.31	24.38	249	12	4.82	27	10.84	82	32.93
Manistee *	23.55	20.87	35	1	2.86	----	------	13	37.14
Manitou *	22.49	20.13	2	----	------	----	------	1	50.00
Marquette	23.04	20.00	154	2	1.30	3	1.95	94	61.04
Mason *	24.27	21.27	22	1	4.55	1	4.55	7	31.82
Mecosta *	23.86	20.97	46	1	2.17	2	4.35	21	45.65
Menominee *	23.79	19.42	3	----	------	----	------	2	66.67
Midland *	24.14	21.58	38	----	------	1	2.63	17	44.74
Monroe	24.12	23.28	202	6	2.97	21	10.40	79	39.11
Montcalm *	23.64	22.45	121	4	3.31	6	4.96	50	41.32
Muskegon *	24.09	22.00	136	2	1.47	5	3.68	60	44.12
Newaygo *	23.51	21.50	29	----	------	1	3.45	10	34.48
Oakland	26.57	25.31	265	9	3.40	44	16.60	58	21.89
Oceana *	24.03	22.57	70	1	1.43	3	4.29	25	35.71

* Except counties and townships not represented by returns of deaths; see Exhibit H, pages 204-206. The statement of average age is of all inhabitants of the State.

Digitized by Google

TABLE XXVII.—CONTINUED.

COUNTIES.	Average Age of Inhabitants June 1, 1870.		All Ages.	Old Age.		Aged 70 and Over.		Aged Under 5.	
	Males.	Females.	Number of Deaths.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
Ontonagon	21.07	19.25	18	1	5.56	1	5.56	9	50.00
Osceola [a]	23.27	20.52	26	1	3.85	2	7.69	16	61.54
Ottawa [a]	23.95	22.19	206	8	3.88	13	6.31	85	41.26
Presque Isle	25.13	19.38	7	1	14.29	1	14.29	4	57.14
Saginaw [a]	23.81	21.62	336	10	2.98	19	5.65	177	52.68
Sanilac [a]	22.30	20.62	73	3	4.11	7	9.59	21	28.77
Shiawassee	24.69	23.67	155	10	6.45	15	9.68	58	37.42
St. Clair	23.61	22.26	334	20	5.99	37	11.08	130	38.92
St. Joseph	25.85	24.75	175	8	4.57	25	14.29	56	32.00
Tuscola [a]	23.58	21.99	81	2	2.47	7	8.64	31	38.27
Van Buren	25.24	23.90	232	12	5.17	30	12.93	81	34.91
Washtenaw [a]	26.36	25.82	297	15	5.05	49	16.50	76	25.59
Wayne [a]	24.37	23.54	1,444	67	4.64	104	7.20	712	49.31
Wexford [a]	24.66	22.07	4	----	------	----	------	2	50.00

[a] Except counties and townships not represented by returns of deaths; see Exhibit H, pages 204-206. The statement of average age is of all inhabitants of the State.

Digitized by Google

TABLE XXVIII.—*Exhibiting, for the Year and Months, by Sex, the Conjugal Condition, Occupation, and Age in Periods of Years, of all who died from Consumption in Michigan during the Year ending December 31, 1871.*

Months, 1871.																Sex and Occupation.	Ages in Periods.																
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Year 1871.	Conjugal Condition.			Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
75	78	110	115	124	108	104	117	114	105	104	132	17	1303	Total	Total Deaths from Consumption.		98	19	24	117	176	149	131	117	76	73	60	68	55	50	41	21	10	23
50	46	54	57	69	71	58	65	59	60	53	70	10	7.2	Married			---	--	--	16	69	93	96	101	60	56	49	57	40	29	22	13	6	15
20	23	42	49	43	28	36	41	35	38	39	47	7	448	Single			98	19	23	98	102	45	27	11	10	5	5	2	3	3	--	2	1	4
3	6	11	5	11	5	5	6	14	5	9	12	--	92	Widowed			---	--	--	---	---	4	5	5	4	11	4	7	11	16	17	3	3	2
2	3	3	4	1	4	5	5	6	2	3	3	--	41	Unknown			---	--	1	8	5	7	3	---	2	1	2	2	1	2	2	3	--	2
40	42	56	56	65	59	48	58	61	57	45	72	9	668	Total	Females.		44	11	11	79	115	91	69	63	30	26	21	28	21	17	23	7	8	9
28	25	28	26	36	37	30	34	31	39	21	43	5	383	Married			---	--	--	15	61	67	55	59	27	16	19	20	14	6	11	5	1	7
10	11	20	24	23	19	17	20	12	14	16	21	4	211	Single			44	11	10	60	51	19	10	---	1	2	1	1	--	--	--	--	--	1
1	4	7	4	6	1	1	3	12	4	7	8	--	58	Widowed			---	--	--	---	---	3	4	4	2	7	1	5	6	11	11	1	2	1
1	2	1	2	---	2	---	1	6	---	1	---	--	16	Unknown			---	--	1	4	3	2	---	---	--	1	--	2	1	--	1	1	--	--

Digitized by Google

TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1871.*

Months, 1871.													Year 1871.	Conjugal Condition.	Sex and Occupation.	Ages in Periods.																
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
85	86	54	59	59	49	56	59	58	48	59	60	8	685	Total	Males.	49	8	13	38	61	58	62	54	46	47	39	40	34	33	18	14	7	14
22	21	26	31	33	34	28	31	28	21	32	27	5	339	Married..		---	--	--	1	8	26	41	42	33	40	30	37	26	23	11	8	5	8
10	12	22	25	20	9	19	21	23	24	23	26	3	237	Single ...		49	8	13	33	51	26	17	11	9	3	4	1	3	3	--	2	1	3
2	2	4	1	5	4	4	3	2	1	2	4	--	34	Widowed		---	--	--	---	---	1	1	1	2	4	3	2	5	5	6	2	1	1
1	1	2	2	1	2	5	4	---	2	2	3	--	25	Unknown		---	--	--	4	2	5	3	---	2	--	2	--	--	2	1	2	--	2
27	29	46	53	53	49	42	56	53	52	39	62	11	582	Total	Occupations Unknown, Total.	---	15	19	74	101	77	55	49	29	26	23	26	19	18	19	9	6	17
18	20	25	25	32	28	25	30	30	33	19	36	6	327	Married..		---	--	--	8	50	55	42	44	22	17	21	18	14	9	8	6	3	10
6	4	17	21	20	17	13	18	14	14	14	18	5	181	Single ...		---	15	13	60	49	18	9	1	3	1	1	1	1	--	--	--	1	3
1	3	3	4	5	2	2	4	10	3	5	7	--	49	Widowed		---	--	--	---	---	2	3	4	2	7	--	5	3	8	10	1	2	2
2	2	1	3	1	2	2	4	4	2	1	1	--	25	Unknown		---	--	1	6	2	2	1	---	2	1	1	2	1	1	1	2	--	2
21	26	38	38	43	42	28	43	47	40	28	49	6	449	Total	Occupations Unknown, Females.	---	10	10	54	77	68	49	47	23	18	14	19	13	12	17	6	3	9
16	18	22	20	26	27	19	28	27	31	13	30	3	280	Married..		---	--	--	8	47	54	39	44	20	11	13	12	9	4	7	4	1	7
3	4	12	13	13	12	8	11	6	6	10	13	3	114	Single ...		---	10	9	42	29	12	7	---	1	1	1	1	--	--	--	--	--	1
1	3	3	3	4	1	1	3	10	3	5	6	--	43	Widowed		---	--	--	---	---	2	3	3	2	5	--	4	3	3	9	1	2	1
1	1	1	2	---	2	---	1	4	---	---	---	--	12	Unknown		---	--	1	4	1	---	---	---	--	1	--	2	1	--	1	1	--	--

Digitized by Google

6	3	8	15	15	7	14	13	11	12	11	13	5	139	Total	Occupations Unknown, Males.	---	5	9	20	24	9	6	2	6	8	9	7	6	6	2	3	3	8
2	2	3	5	6	1	6	2	3	2	6	6	3	47	Married..		---	--	--	---	3	1	3	---	2	6	8	6	5	5	1	2	2	3
3	--	5	8	7	5	5	7	8	8	4	5	2	67	Single ...		---	5	9	18	20	6	2	1	2	--	--	--	1	--	--	--	1	2
--	--	---	1	1	1	1	1	---	---	---	1	--	6	Widowed		---	--	--	---	---	---	--	1	--	2	--	1	--	--	1	--	--	1
1	1	---	1	1	---	2	3	---	2	1	1	--	13	Unknown		---	--	--	2	1	2	1	---	2	--	1	--	--	1	--	1	--	2
48	49	64	62	66	59	62	61	56	58	65	70	6	721	Total	All Specified Occupations, Total.	93	4	5	43	75	72	76	68	47	47	37	42	37	31	22	12	4	6
32	26	29	32	37	43	33	35	29	27	34	34	4	395	Married..		---	--	--	8	19	38	54	57	38	39	28	39	26	20	14	7	3	5
14	19	25	28	23	11	23	23	21	24	25	29	2	267	Single ...		93	4	5	33	53	27	18	10	7	4	4	1	2	3	--	2	--	1
2	3	8	1	6	3	3	2	4	2	4	5	--	43	Widowed		---	--	--	---	---	2	2	1	2	4	4	2	9	7	7	2	1	--
-	1	2	1	---	2	3	1	2	---	2	2	--	16	Unknown		---	--	--	2	3	5	2	---	--	--	1	--	--	1	1	1	--	--
19	16	18	18	22	17	20	15	14	17	17	23	3	219	Total	Specified Occupations, Females. (Class XII.)	44	1	1	25	38	23	20	16	7	8	7	9	8	5	6	1	--	--
12	7	6	6	10	10	11	6	4	8	8	13	2	103	Married..		---	--	--	7	14	13	16	15	7	5	6	8	5	2	4	1	--	--
7	7	8	11	10	7	9	9	6	8	6	8	1	97	Single ...		44	1	1	18	22	7	3	---	--	1	--	--	--	--	--	--	--	--
--	1	4	1	2	---	---	---	2	1	2	2	--	15	Widowed		---	--	--	---	---	1	1	1	--	2	1	1	3	3	2	---	--	--
--	1	---	---	---	---	---	---	2	---	1	---	--	4	Unknown		---	--	--	---	2	2	---	---	--	--	--	--	--	--	--	--	--	--
29	33	46	44	44	42	42	46	42	36	48	47	3	502	Total	Specified Occupations, Males. (Classes I.—XI.)	49	3	4	18	37	49	56	52	40	39	30	33	29	26	16	11	4	6
20	19	23	26	27	33	22	29	25	19	26	21	2	292	Married..		---	--	--	1	5	25	38	42	31	34	22	31	21	18	10	6	3	5
7	12	17	17	13	4	14	14	15	16	19	21	1	170	Single ...		49	3	4	15	31	20	15	10	7	3	4	1	2	3	--	2	--	1
2	2	4	---	4	3	3	2	2	1	2	3	--	28	Widowed		---	--	--	---	---	1	1	---	2	2	3	1	6	4	5	2	1	--
--	--	2	1	---	2	3	1	---	---	1	2	--	12	Unknown		---	--	--	2	1	3	2	---	--	--	1	--	--	1	1	1	--	--

Digitized by Google

TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1871.*

Months, 1871.													Year 1871.	Conjugal Condition.	Sex and Occupation.	Ages in Periods.																	
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
16	18	17	15	17	17	19	23	20	15	21	20	2	220	Total	Class I. Cultivators of the Earth.	---	--	1	7	16	20	29	20	14	19	19	18	19	18	7	6	4	3
13	12	9	13	12	11	11	19	16	11	12	9	1	149	Married..		---	--	--	---	1	11	22	16	10	16	13	17	14	13	5	5	3	3
2	5	6	2	4	1	5	3	3	4	6	8	1	50	Single ...		--	--	1	6	15	7	7	4	3	2	2	1	1	1	--	--	--	--
1	1	2	---	1	3	2	1	1	---	2	2	--	16	Widowed		--	--	--	---	---	---	---	---	1	1	3	--	4	3	2	1	1	--
--	--	---	---	---	2	1	---	---	---	1	1	--	5	Unknown		---	--	--	1	---	2	---	---	--	--	1	--	--	1	--	--	--	--
1	--	---	4	7	2	4	1	1	1	---	2	--	23	Total	Class II. Active Mechanics Abroad.	---	--	--	1	3	4	---	3	2	3	--	2	2	2	1	--	--	--
1	--	---	3	5	2	3	---	---	1	---	2	--	17	Married..		--	--	--	1	2	2	---	3	2	3	--	2	--	2	--	--	--	--
--	--	---	1	1	---	1	---	---	---	---	---	--	3	Single ...		---	--	--	---	1	2	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	1	---	---	1	1	---	---	---	--	3	Widowed		---	--	--	---	---	---	---	---	--	--	--	--	2	--	1	--	--	--
2	1	6	4	1	4	3	2	---	3	6	4	--	36	Total	Class III. Active Mechanics in Shops.	---	--	--	2	4	4	5	6	3	5	2	--	2	--	2	1	--	--
2	1	5	3	1	4	1	2	---	2	4	3	--	28	Married..		---	--	--	---	1	2	5	6	3	5	2	--	2	--	2	--	--	--
--	--	---	1	---	---	2	---	---	1	2	1	--	7	Single ...		---	--	--	2	3	2	---	---	--	--	--	--	--	--	--	--	--	--
--	--	1	---	---	---	---	---	---	---	---	--	--	1	Unknown		---	--	--	---	---	---	---	---	--	--	--	--	--	--	--	1	--	--

Digitized by Google

--	1	8	8	2	8	8	4	2	4	1	2	--	28	Total	Class IV. Inactive Mechanics in Shops.	--	--	--	--	2	8	4	1	2	2	2	8	1	2	2	2	--		
--	1	8	2	2	2	2	2	1	8	1	2	--	21	Married		--	--	--	--	1	2	4	1	2	2	2	8	1	1	--	1	--	1		
--	--	--	1	--	1	--	1	1	--	--	--	--	4	Single		--	--	--	--	1	1	--	--	--	--	--	--	--	1	--	--	--	1		
--	--	--	--	--	--	1	--	--	1	--	--	--	2	Widowed		--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	--		
--	--	--	--	--	--	--	1	--	--	--	--	--	1	Unknown		--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--		
4	8	9	6	3	4	1	6	4	8	7	5	1	56	Total	Class V. Laborers—no Special Trades.	--	--	--	2	4	7	4	12	7	6	5	8	1	2	1	2	--	--		
4	2	5	2	2	4	--	2	4	--	8	2	1	31	Married		--	--	--	--	--	2	2	9	6	4	4	8	--	--	1	--	--	--		
--	--	8	4	1	--	--	4	--	8	4	2	--	21	Single		--	--	--	2	8	5	2	8	--	1	1	--	1	1	--	2	--	--		
--	1	1	--	--	--	--	--	--	--	--	1	--	3	Widowed		--	--	--	--	--	--	--	--	1	1	--	--	--	1	--	--	--	--		
--	--	--	--	--	--	1	--	--	--	--	--	--	1	Unknown		--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--		
2	--	--	--	1	1	2	1	1	1	--	--	--	9	Total	Class VI. Agents, Laborers Abroad, etc.	--	--	--	1	--	--	1	1	4	2	--	--	--	--	--	--	--	--		
--	--	--	--	1	1	1	1	1	--	--	--	--	5	Married		--	--	--	--	--	--	--	1	2	2	--	--	--	--	--	--	--	--		
2	--	--	--	--	--	--	--	--	1	--	--	--	3	Single		--	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	--	--		
--	--	--	--	--	--	1	--	--	--	--	--	--	1	Unknown		--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--		
--	--	--	--	1	--	--	--	--	--	--	--	--	1	Married	Class VII. Seafaring Men.	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--		
--	--	--	--	--	1	--	--	--	--	--	--	--	1	Married	Class VIII. Soldiers.	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--		
1	8	2	2	8	5	8	4	5	2	6	8	--	39	Total	Class IX. Business Men.	--	--	--	1	5	6	7	6	5	2	1	4	1	1	--	--	--	--		
--	2	--	1	1	5	2	8	8	1	5	1	--	24	Married		--	--	--	--	--	8	4	4	5	2	1	8	1	1	--	--	--	--		
1	1	1	--	1	--	1	1	2	1	1	1	--	11	Single		--	--	--	--	5	2	2	2	--	--	--	--	--	--	--	--	--	--		
--	--	--	--	1	--	--	--	--	--	--	--	--	1	Widowed		--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--		
--	--	1	1	--	--	--	--	--	--	--	1	--	3	Unknown		--	--	--	1	--	1	1	--	--	--	--	--	--	--	--	--	--	--		

Digitized by Google

TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1871.*

Months, 1871.													Year 1871.	Conjugal Condition.	Sex and Occupation.	Ages in Periods.																
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
1	1	1	3	2	4	1	...	1	3	...	2	..	19	Total	Class X. Professional Men.	...	..	..	...	2	5	6	2	..	..	..	2	1	..	..	..	..	1
..	..	...	2	1	3	1	...	...	1	...	1	..	9	Married		...	..	..	...	...	3	1	1	..	..	..	2	1	..	..	..	..	1
..	1	1	1	...	1	...	...	1	2	...	1	..	8	Single		...	..	..	...	2	1	4	1	..	..	..	..	..	..	..	..	..	..
1	..	...	...	1	...	...	...	...	...	...	...	..	2	Widowed		...	..	..	...	...	1	1	...	..	..	..	..	..	..	..	..	..	..
2	6	8	7	7	1	6	5	8	4	7	9	..	70	Total	Class XI. Unemployed.[a]	49	3	3	4	1	...	...	...	3	..	1	1	1	1	3	..	..	..
..	1	1	...	1	...	1	...	...	...	1	1	..	6	Married		...	..	..	...	...	...	...	...	1	..	..	1	1	1	2	..	..	..
2	5	6	7	6	1	5	5	8	4	6	8	..	63	Single		49	3	3	4	1	...	...	...	2	..	1	..	..	..	..	..	..	..
..	..	1	...	...	...	...	...	...	...	...	...	..	1	Widowed		...	..	..	...	...	...	...	...	..	..	..	..	..	..	1	..	..	..
16	18	17	15	17	17	19	23	20	15	21	20	2	220		Class I.	...	..	1	7	16	20	29	20	14	19	19	18	19	18	7	6	4	3
16	18	17	15	15	17	19	23	18	15	21	19	2	215	Total	Farmers.	...	..	1	7	15	20	29	20	13	19	18	18	18	18	7	6	3	3
13	12	9	13	11	11	11	19	15	11	12	9	1	147	Married		...	..	..	...	1	11	22	16	10	16	13	17	13	13	5	5	2	3
2	5	6	2	3	1	5	3	2	4	6	7	1	47	Single		...	..	1	6	14	7	7	4	2	2	1	1	1	1	..	..	..	..
1	1	2	...	1	3	2	1	1	...	2	2	..	16	Widowed		...	..	..	...	...	...	...	...	1	1	3	..	4	3	2	1	1	..
..	..	...	...	...	2	1	...	...	...	1	1	..	5	Unknown		...	..	..	1	...	2	...	...	..	..	1	..	..	1	..	..	..	..

Digitized by Google

--	--	---	---	1	---	---	---	---	---	---	---	--	1	Single....	Farmer and Gardener.	---	--	--	---	---	---	---	---	1	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	---	---	---	---	1	--	1	Single....	Farm Laborer.	---	--	--	---	1	---	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	1	---	---	---	2	---	---	---	--	3	Total....	Gardeners.	---	--	--	---	---	---	---	---	--	--	1	--	1	--	--	--	1	--
--	--	---	---	---	---	---	---	1	---	---	---	--	1	Married..		---	--	--	---	---	---	---	---	--	--	--	--	--	--	--	--	1	--
--	--	---	---	---	---	---	---	1	---	---	---	--	1	Single....		---	--	--	---	---	---	---	---	--	--	1	--	--	--	--	--	--	--
--	--	---	---	1	---	---	---	---	---	---	---	--	1	Married..	Retired Farmer.	---	--	--	---	---	---	---	---	--	--	--	--	1	--	--	--	--	--
1	--	---	4	7	2	4	1	1	1	---	2	--	23		CLASS II.	---	--	--	1	3	4	---	3	2	3	--	2	2	2	1	--	--	--
--	--	---	4	4	---	1	1	---	---	---	2	--	12	Total....	Carpenters.	---	--	--	---	1	2	---	2	1	3	--	--	--	2	1	--	--	--
--	--	---	3	3	---	1	---	---	---	---	2	--	9	Married..		---	--	--	---	---	1	---	2	1	3	--	--	--	2	--	--	--	--
--	--	---	1	1	---	---	---	---	---	---	---	--	2	Single....		---	--	--	---	1	1	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	--	---	---	---	1	---	---	---	---	--	1	Widowed		---	--	--	---	---	---	---	---	--	--	--	--	--	--	1	--	--	--
--	--	---	---	---	---	1	---	---	---	---	---	--	1	Single....	Caulker.	---	--	--	---	---	1	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	1	---	---	---	---	---	---	---	--	1	Married..	Joiner.	---	--	--	1	---	---	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	1	2	---	---	1	1	---	---	--	5	Total....	Masons.	---	--	--	---	1	---	---	1	--	--	--	2	1	--	--	--	--	--
--	--	---	---	1	2	---	---	---	1	---	---	--	4	Married..		---	--	--	---	1	---	---	1	--	--	--	2	--	--	--	--	--	--
--	--	---	---	---	---	---	---	1	---	---	---	--	1	Widowed		---	--	--	---	---	---	---	---	--	--	--	--	1	--	--	--	--	--
--	--	---	---	---	---	1	---	---	---	---	---	--	1	Married..	Painter.	---	--	--	---	1	---	---	--	--	--	--	--	--	--	--	--	--	--
--	--	---	---	1	---	---	---	---	---	---	---	--	1	Widowed	Ship Carpenter.	---	--	--	---	---	---	---	---	--	--	--	--	1	--	--	--	--	--
1	--	---	---	---	---	1	---	---	---	---	---	--	2	Married..	Stone Masons.	---	--	--	---	---	1	---	---	1	--	--	--	--	--	--	--	--	--
2	1	6	4	1	4	8	2	---	3	6	4	--	36		CLASS III.	---	--	--	2	4	4	5	6	3	5	2	--	2	--	2	1	--	--

* Includes all under five years of age.

Digitized by Google

TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1871.*

Months, 1871.													Year 1871.	Conjugal Condition.	Sex and Occupation.	Ages in Periods.																
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
															Class III.—(Continued.)																		
1	1	1	...	...	1	...	1	...	1	1	...	..	7	Total	Blacksmiths.	...	..	..	1	...	...	...	2	1	..	..	..	2	..	1	..	..	..
1	1	1	...	...	1	...	1	...	...	1	...	..	6	Married		...	..	..	...	...	...	...	2	1	..	..	..	2	..	1	..	..	..
..	..	...	...	...	...	...	...	...	1	...	...	..	1	Single		...	..	..	1	...	...	...	...	..	..	..	..	..	..	..	..	..	..
..	..	...	...	...	1	...	...	...	...	...	...	..	1	Married	Boiler-maker.	...	..	..	...	...	...	...	1	...	..	..	..	.	..	..	..	..	..
..	..	...	1	...	...	..	...	...	...	...	...	..	1	Married	Brewer.	...	..	..	...	...	...	...	...	1	..	..	..	..	..	..	..	..	..
..	..	1	...	...	...	...	...	...	...	1	...	..	2	Total	Cabinet-makers.	...	..	..	...	...	1	1	...	..	..	..	..	..	..	..	..	..	..
..	..	1	...	...	...	...	...	...	...	...	...	..	1	Married		...	..	..	...	...	...	1	...	..	..	..	..	..	..	..	..	..	..
..	..	...	...	...	...	...	...	...	...	1	...	..	1	Single		...	..	..	...	...	1	...	...	..	..	..	..	..	..	..	..	..	..
1	..	...	1	...	2	...	...	...	...	...	...	..	4	Married	Coopers.	...	..	..	...	...	...	...	2	1	1	..	..	..	..	..	..	..	..
..	..	...	...	...	..	1	...	...	1	...	...	..	2	Total	Engineers.	...	..	..	...	1	...	1	...	..	..	..	..	..	..	..	..	..	..
..	..	...	...	...	...	...	...	...	1	...	...	..	1	Married		...	..	..	...	..	...	1	...	..	..	..	..	..	..	..	..	..	..
..	..	...	...	...	...	1	...	...	...	...	...	..	1	Single		...	..	..	...	1	...	...	...	..	..	..	..	..	..	..	..	..	..
..	..	1	...	...	...	...	...	...	...	2	...	..	3	Married	Machinists.	..	..	..	...	1	...	1	...	..	..	1	..	..	..	..	..	..	..

Digitized by Google

7	Total	Mechanics.	--	--	--	1	1	--	2	--	--	2	1	--	--	--	--	--	--	--
5	Married		--	--	--	--	--	--	2	--	--	2	1	--	--	--	--	--	--	--
2	Single		--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--
1	Married	Miller.	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
1	Married	Moulder.	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
1	Single	Sawyer.	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
1	Married	Stone-cutter.	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
1	Married	Tinner.	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
1	Married	Upholsterer.	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
1	Married	Wagoner.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
1	Unknown	Wagon-maker.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
1	Single	Wood turner.	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
28		CLASS IV.	--	--	--	--	2	3	4	1	2	2	2	3	1	2	2	2	--	2
1	Married	Barber.	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
1	Married	Cigar maker.	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
6	Married	Harness makers.	--	--	--	--	1	1	2	1	--	1	--	--	--	--	--	--	--	--
1	Single	Jeweler	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
2	Single	Printers.	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1
7	Total	Shoemakers.	--	--	--	--	--	--	--	--	2	--	1	1	--	--	2	1	--	
4	Married		--	--	--	--	--	--	--	--	2	--	1	1	--	--	--	--	--	
2	Widowed.		--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	
1	Unknown		--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
7	Total		--	--	2	--	--	1	--	--	--	1	3	--						
5	Married		--	--	1	--	--	1	--	--	--	1	2	--						
2	Single		--	--	1	--	--	--	--	--	--	--	1	--						
1	Married		--	--	--	--	--	--	--	--	--	--	1	--						
1	Married		--	--	--	--	1	--	--	--	--	--	--	--						
1	Single		--	--	--	--	--	1	--	--	--	--	--	--						
1	Married		--	--	1	--	--	--	--	--	--	--	--	--						
1	Married		--	--	--	--	--	1	--	--	--	--	--	--						
1	Married		--	--	--	--	--	--	--	1	--	--	--	--						
1	Married		--	--	--	--	--	--	--	1	--	--	--	--						
1	Unknown		--	--	1	--	--	--	--	--	--	--	--	--						
1	Single		--	--	--	--	--	--	--	--	1	--	--	--						
28			1	3	3	2	3	3	4	2	4	1	2	--						
1	Married		--	--	1	--	--	--	--	--	--	--	--	--						
1	Married		--	--	--	--	--	--	--	--	1	--	--	--						
6	Married		--	--	1	--	1	1	1	1	--	--	1	--						
1	Single		--	--	--	--	--	--	--	1	--	--	--	--						
2	Single		--	--	--	--	--	1	--	1	--	--	--	--						
7	Total		--	--	1	1	1	--	1	1	--	1	1	--						
4	Married		--	--	1	1	1	--	--	--	--	--	1	--						
2	Widowed.		--	--	--	--	--	1	--	--	1	--	--	--						
1	Unknown		--	--	--	--	--	1	--	--	--	--	--	--						

Digitized by Google

TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1871.*

Months, 1871.													Year 1871.	Conjugal Condition.	Sex and Occupation.	Ages in Periods.																	
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
															Class IV.—(Continued.)																			
--	--	---	2	---	1	1	1	1	1	---	1	--	8	Total	Tailors.	---	--	--	---	---	---	---	---	--	1	1	1	1	2	--	1	--	1
--	--	---	1	---	1	1	1	1	1	---	1	--	7	Married		---	--	--	---	---	---	---	---	--	1	1	1	1	1	--	1	--	1
--	--	---	1	---	---	---	---	---	---	---	---	--	1	Single		---	--	--	---	---	---	---	---	--	--	--	--	--	1	--	--	--	--
--	1	---	---	---	---	---	---	---	1	---	---	--	2	Married	Telegraph Operators.	---	--	--	---	---	1	1	---	--	--	--	--	--	--	--	--	--	--
4	3	9	6	3	4	1	6	4	3	7	5	1	56		Class V.	---	--	--	2	4	7	4	12	7	6	5	3	1	2	1	2	--	--
4	3	7	6	3	4	---	6	4	3	7	5	1	53	Total	Laborers.	---	--	--	1	3	7	4	11	7	6	5	3	1	2	1	2	--	--
4	2	4	2	2	4	---	2	4	---	3	2	1	30	Married		---	--	--	---	---	2	2	8	6	4	4	3	--	--	1	--	--	--
--	--	2	4	1	---	---	4	---	3	4	2	--	20	Single		---	--	--	1	3	5	2	3	--	1	1	--	1	1	--	2	--	--
--	1	1	---	---	---	---	---	---	---	---	1	--	3	Widowed		---	--	--	---	---	---	---	---	1	1	--	--	--	1	--	--	--	--
--	--	2	---	---	---	1	---	---	---	---	---	--	3	Total	Miners.	---	--	--	1	1	---	---	1	--	--	--	--	--	--	--	--	--	--
--	--	1	---	---	---	---	---	---	---	---	---	--	1	Married		---	--	--	---	---	---	---	1	--	--	--	--	--	--	--	--	--	--
--	--	1	---	---	---	---	---	---	---	---	---	--	1	Single		---	--	--	1	---	---	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	1	---	---	---	---	---	--	1	Unknown		---	--	--	---	1	---	---	---	--	--	--	--	--	--	--	--	--	--

Digitized by Google

2	--	---	---	1	1	2	1	1	1	---	---	--	9		CLASS VI.	---	--	--	1	---	---	1	1	4	2	--	--	--	--	--	--	--	--
1	--	---	---	---	---	2	---	1	---	---	---	--	4	Total		---	--	--	1	---	---	1	1	--	1	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	---	1	---	---	---	--	1	Married	Butchers.	---	--	--	---	---	---	---	---	--	1	--	--	--	--	--	--	--	--
--	--	---	---	---	---	1	---	---	---	---	---	--	1	Unknown		---	--	--	---	---	---	1	---	--	--	--	--	--	--	--	--	--	--
1	--	---	---	---	--	---	---	---	---	--	---	--	1	Single	Drayman.	---	--	--	1	---	---	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	1	---	---	---	---	---	--	1	Married	Fishmonger.	---	--	--	---	---	---	---	1	--	--	--	--	--	--	--	--	--	--
1	--	---	---	1	1	---	1	---	1	---	---	--	5	Total		---	--	--	---	---	---	---	---	4	1	--	--	--	--	--	--	--	--
--	--	---	---	---	1	---	---	---	---	---	---	--	1	Married	Lumbermen.	---	--	--	---	---	---	---	---	--	1	--	--	--	--	--	--	--	--
1	--	---	---	---	---	---	---	---	---	---	---	--	1	Single		---	--	--	---	---	---	---	---	1	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	1	---	--	---	---	--	1	Married	Mining Agent.	---	--	--	---	---	---	---	---	1	--	--	--	--	--	--	--	--	--
--	--	---	---	1	---	---	---	---	---	---	---	--	1	Married	Policeman.	---	--	--	---	---	---	---	---	1	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	---	---	1	---	---	--	1	Single	Sportsman.	---	--	--	---	---	---	---	---	1	--	--	--	--	--	--	--	--	--
															CLASS VII.																				
--	--	---	---	1	---	---	---	---	---	---	---	--	1	Married	Fisherman.	---	--	--	---	---	---	---	---	--	--	--	--	1	--	--	--	--	--
															CLASS VIII.																				
--	--	---	---	---	1	---	---	---	---	---	---	--	1	Married	Soldier.	---	--	--	---	---	---	---	1	--	--	--	--	--	--	--	--	--	--
1	3	2	2	3	5	3	4	5	2	6	3	--	39		CLASS IX.	---	--	--	1	5	6	7	6	5	2	1	4	1	1	--	--	--	--
--	1	---	---	---	---	1	1	---	---	3	---	--	6	Total		---	--	--	---	---	1	---	2	2	1	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	1	---	---	---	---	--	1	Married	Bankers.	---	--	--	---	---	---	---	---	--	1	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	---	---	---	1	---	--	1	Single		---	--	--	---	---	---	---	1	--	--	--	--	--	--	--	--	--	--
--	1	---	---	---	---	1	---	---	---	2	---	--	4	Married	Book-keepers.	---	--	--	---	---	1	---	1	2	--	--	--	--	--	--	--	--	--

Digitized by Google

TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1871.*

Months, 1871.													Year 1871.	Conjugal Condition.	Sex and Occupation.	Ages in Periods.																
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
															Class IX.—(Continued.)																		
--	2	1	1	1	--	--	--	3	--	--	1	--	9	Total	Clerks.	--	--	--	1	2	3	2	--	--	--	--	1	--	--	--	--	--	--
--	1	--	--	--	--	--	--	1	--	--	--	--	2	Married		--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--
--	1	--	--	1	--	--	--	2	--	--	--	--	4	Single		--	--	--	--	2	1	1	--	--	--	--	--	--	--	--	--	--	--
--	--	1	1	--	--	--	--	--	--	--	1	--	3	Unknown		--	--	--	1	--	1	1	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	1	--	--	1	Married	Clothier.	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	1	--	--	--	--	1	Married	County Treasurer.	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	1	--	1	Married	Grocer.	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	1	--	--	--	--	--	1	Married	Horse-dealer.	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	1	--	--	1	Married	Hotel-keeper.	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
--	--	--	--	--	1	--	--	--	--	--	--	--	1	Married	Insurance Agent.	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
--	--	1	--	--	1	--	1	--	1	--	--	--	4	Total	Lumber-dealers.	--	--	--	--	--	1	2	--	--	--	--	1	--	--	--	--	--	--
--	--	--	--	--	--	--	1	--	--	--	--	--	1	Married		--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
--	--	1	--	--	--	--	--	--	1	--	--	--	2	Single		--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	1	--	--	--	--	--	--	--	1	Married	Lumber Inspector.	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--

Digitized by Google

1	--	---	1	---	2	1	1	---	---	1	---	--	7	Total	Merchants.	---	--	--	---	3	1	1	1	1	--	--	--	--	--	--	--	--	--	--	--
--	--	---	1	---	2	---	---	---	---	1	--	--	4	Married		---	--	--	---	---	1	1	1	1	--	--	--	--	--	--	--	--	--	--
1	--	---	---	---	---	1	1	---	---	---	---	--	3	Single		---	--	--	---	3	---	---	---	--	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	1	---	---	---	---	---	--	1	Married	Revenue Officer.	---	--	--	---	---	---	---	---	--	--	--	--	1	--	--	--	--	--	--
--	--	---	---	1	1	---	---	1	1	---	1	--	5	Total	Saloon-keepers.	---	--	--	---	---	---	---	2	--	--	--	2	--	1	--	--	--	--	--
--	--	---	---	---	1	---	---	1	1	---	---	--	3	Married		---	--	--	---	---	---	---	1	--	--	--	1	--	1	--	--	--	--	--
--	--	---	---	---	---	---	---	---	---	---	1	--	1	Single		---	--	--	---	---	---	---	1	--	--	--	--	--	--	--	--	--	--	--
--	--	---	---	1	---	---	---	---	---	---	---	--	1	Widowed		---	--	--	---	---	---	---	---	--	--	--	1	--	--	--	--	--	--	--
--	--	---	---	1	---	---	---	---	---	---	---	--	1	Married	Shoe Merchant.	---	--	--	---	--	---	1	---	--	--	--	--	--	--	--	--	--	--	--
1	1	1	3	2	4	1	---	1	3	---	2	--	19	---------	CLASS X.	---	--	--	---	2	5	6	2	--	--	--	2	1	--	--	--	--	--	1
--	1	---	---	---	---	---	---	---	---	---	---	--	1	Single	Artist.	---	--	--	---	---	---	---	1	--	--	--	--	--	--	--	--	--	--	--
--	--	1	---	---	1	---	---	---	1	---	---	--	3	Total	Dentists.	---	--	--	---	---	1	2	---	--	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	1	---	---	---	---	---	---	--	1	Married		---	--	--	---	---	---	1	---	--	--	--	--	--	--	--	--	--	--	--
--	--	1	---	---	---	---	---	---	1	---	---	--	2	Single		---	--	--	---	---	1	1	---	--	--	--	--	--	--	--	--	--	--	--
--	--	---	1	1	---	---	---	---	1	---	---	--	3	Total	Lawyers.	---	--	--	---	---	---	2	---	--	--	--	--	--	--	--	--	--	--	1
--	--	---	---	1	---	---	---	---	---	---	---	--	1	Married		---	--	--	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	1
--	--	---	1	---	---	---	---	---	1	---	---	--	2	Single		---	--	--	---	---	---	2	---	--	--	--	--	--	--	--	--	--	--	--
--	--	---	2	---	---	---	---	---	1	---	1	--	4	Married	Ministers.	---	--	--	---	---	2	---	---	--	--	--	1	1	--	--	--	--	--	--
--	--	---	---	---	1	1	---	---	---	---	---	--	2	Married	Physicians.	---	--	--	---	---	1	---	---	--	--	--	1	--	--	--	--	--	--	--
1	--	---	---	1	2	---	---	1	---	---	1	--	6	Total	Teachers.	---	--	--	---	2	1	2	1	--	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	1	---	---	---	---	---	---	--	1	Married		---	--	--	---	---	---	---	1	--	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	1	---	---	1	---	---	1	--	3	Single		---	--	--	---	2	---	1	---	--	--	--	--	--	--	--	--	--	--	--
1	--	---	---	1	---	---	---	---	---	---	---	--	2	Widowed		---	--	--	---	---	1	1	---	--	--	--	--	--	--	--	--	--	--	--

Digitized by Google

TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1871.*

Months, 1871.													Year 1871.	Conjugal Condition.	Sex and Occupation.	Ages in Periods.																	
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
2	6	8	7	7	1	6	5	8	4	7	9	..	70	.....	Class XI.	49	8	3	4	1	...	...	...	3	..	1	1	1	1	3	..	..	..
..	..	...	...	...	...	...	...	...	...	1	...	..	1	Single....	At Home.	...	..	..	1	...	...	...	...	..	..	..	..	..	..	..	..	..	..
..	..	...	...	1	...	...	...	...	...	1	...	..	2	Married..	Gentlemen.	...	..	..	...	...	...	...	...	..	..	..	..	..	1	1	..	..	..
..	..	1	...	...	...	...	...	...	...	...	1	..	2	Total		...	..	..	...	...	...	...	...	..	..	1	..	..	..	1	..	..	..
..	..	...	...	...	...	...	...	...	...	...	1	..	1	Single....	Paupers.	...	..	..	...	...	...	...	...	..	..	1	..	..	..	..	..	..	..
..	..	1	...	...	...	...	...	...	...	...	...	..	1	Widowed		...	..	..	...	...	...	...	...	..	..	..	..	..	..	1	..	..	..
2	6	7	7	6	1	6	5	8	4	5	8	..	65	Total		49	8	3	3	1	...	...	...	3	..	..	1	1	..	1	..	..	..
..	1	1	...	...	...	1	...	...	...	...	1	..	4	Married..	Unemployed.[a]	...	..	..	...	...	...	...	...	1	..	..	1	1	..	1	..	..	..
2	5	6	7	6	1	5	5	8	4	5	7	..	61	Single....		49	8	3	3	1	...	...	..	2	..	..	..	..	..	..	..	..	..
19	16	18	18	22	17	29	15	14	17	17	23	3	219	.....	Class XII. (Females.)	44	1	1	25	38	23	20	16	7	8	7	9	8	5	6	1	..	..
..	..	...	...	...	...	...	...	...	...	...	1	..	1	Single....	At Home.	...	..	..	1	...	...	...	...	..	..	..	..	..	..	..	..	..	..
..	..	...	...	1	...	...	...	...	...	...	...	..	1	Single....	Domestic.	...	..	..	...	1	...	...	...	..	..	..	..	..	..	..	..	..	..
..	..	...	...	...	...	...	...	1	...	...	...	..	1	Single....	Dress-maker.	...	..	..	1	...	...	...	...	..	..	..	..	..	..	..	..	..	..
1	1	2	...	...	...	2	...	...	2	1	2	..	11	Married..	Farmers.	...	..	..	1	1	...	1	2	..	..	2	2	..	1	1	..	..	..
..	..	...	...	...	...	...	...	...	...	1	...	..	1	Single....	Farmer's Daughter.	...	..	..	...	...	1	...	...	..	..	..	..	..	..	..	..	..	..

Digitized by Google

--	2	---	2	4	1	1	1	2	1	5	2	--	21	Total	Farmers' Wives.	---	--	--	1	3	3	3	1	1	2	1	3	2	--	1	--	--	--
--	2	---	2	4	1	1	1	2	1	4	2	--	20	Married		---	--	--	1	3	3	3	1	1	2	1	3	1	--	1	--	--	--
--	--	---	---	---	---	---	---	---	---	1	---	--	1	Widowed		---	--	--	---	---	---	---	---	--	--	--	--	1	--	--	--	--	--
2	2	3	2	2	6	4	5	2	1	2	2	--	33	Total	House-keepers.	---	--	--	2	5	5	4	5	1	1	3	1	3	1	2	--	--	--
1	2	2	2	2	6	4	5	1	1	2	2	--	30	Married		---	--	--	2	4	5	4	5	1	1	3	1	3	--	1	--	--	--
1	--	---	---	---	---	---	---	---	---	---	---	--	1	Single		---	--	--	---	1	---	---	---	--	--	--	--	--	--	--	--	--	--
--	--	1	---	---	---	---	---	1	---	---	---	--	2	Widowed		---	--	--	---	---	---	---	---	--	--	--	--	--	1	1	--	--	--
2	1	1	2	---	1	2	---	---	---	---	---	--	9	Total	Housewives.	---	--	--	1	---	---	3	2	1	1	--	--	1	--	--	--	--	--
2	1	---	1	---	1	2	---	---	---	---	---	--	7	Married		---	--	--	---	---	---	3	2	1	1	--	--	--	--	--	--	--	--
--	--	---	1	---	---	---	---	---	---	---	---	--	1	Single		---	--	--	1	---	---	---	---	--	--	--	--	--	--	--	--	--	--
--	--	1	---	---	---	---	---	---	---	---	---	--	1	Widowed		---	--	--	---	---	---	---	---	--	--	--	--	1	--	--	--	--	--
1	1	---	1	1	2	1	---	1	---	2	---	--	10	Total	House-workers.	---	--	--	2	4	1	1	1	1	--	--	--	--	--	--	--	--	--
1	--	---	---	---	---	1	---	---	---	---	---	--	2	Married		---	--	--	---	---	---	---	1	1	--	--	--	--	--	--	--	--	--
--	1	---	1	1	2	---	---	---	---	1	---	--	6	Single		---	--	--	2	3	---	1	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	---	1	---	1	---	--	2	Unknown		---	--	--	---	1	1	--	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	---	---	---	---	1	--	1	Single	Laborer.	---	--	--	---	---	---	---	---	--	1	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	---	---	---	---	2	--	2	Married	Laborers' Wives.	---	--	--	1	---	---	---	---	--	--	--	1	--	--	--	--	--	--
--	--	---	---	---	---	---	---	---	---	---	1	--	1	Married	Merchant's Wife.	---	--	--	---	---	---	---	1	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	---	---	---	---	1	--	1	Married	Milliner.	---	--	--	---	1	---	---	---	--	--	--	--	--	--	--	--	--	--
1	--	---	---	---	---	---	---	---	---	---	---	--	1	Married	Mother.	---	--	--	---	1	---	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	1	---	1	---	---	---	---	---	---	--	2	Single	Music Teachers.	---	--	--	---	2	---	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	---	---	---	1	---	--	1	Widowed	Physician's Wife.	---	--	--	---	---	---	---	---	--	1	--	--	--	--	--	--	--	--

* Includes all under five years of age.

Digitized by Google

TABLE XXVIII.—CONTINUED.—*Deaths from Consumption, 1871.*

Months, 1871.													Year 1871.	Conjugal Condition.	Sex and Occupation.	Ages in Periods.																	
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.				Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
															Class XI.—(Continued.)																		
--	--	---	---	---	---	---	---	---	---	1	---	--	1	Single....	Seamstress.	---	--	--	---	---	1	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	1	---	---	---	---	---	---	---	---	--	1	Single....	Sister of Charity.	---	--	--	---	---	1	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	--	---	---	---	1	---	--	1	Single....	Student.	---	--	--	1	---	---	---	---	--	--	--	--	--	--	--	--	--	--
--	--	---	---	---	---	---	1	---	---	---	---	--	1	Single....	Tailoress.	---	--	--	---	---	1	---	---	--	--	--	--	--	--	--	--	--	--
2	--	---	---	1	2	---	---	---	---	1	---	--	6	Single....	Teachers.	---	--	--	---	4	1	1	---	--	--	--	--	--	--	--	--	--	--
10	8	11	8	11	4	10	8	7	13	2	10	8	105	Total....	Unemployed.[a]	44	1	1	14	15	6	7	4	3	1	--	2	2	3	1	1	--	--
6	--	2	---	2	2	1	---	1	4	1	2	2	23	Married..		---	--	--	2	3	2	5	3	3	1	--	1	1	1	--	1	--	--
4	6	8	7	7	2	9	8	5	8	1	6	1	72	Single....		44	1	1	12	11	2	1	---	--	--	--	--	--	--	--	--	--	--
--	1	1	1	2	---	---	---	---	1	---	2	--	8	Widowed		---	--	--	---	---	1	1	1	--	--	--	1	1	2	1	--	--	--
--	1	---	---	---	---	---	---	1	---	---	---	--	2	Unknown		---	--	--	---	1	1	---	---	--	--	--	--	--	--	--	--	--	--
--	1	---	---	---	---	---	---	---	---	---	---	--	1	Married..	Weaver.	---	--	--	---	---	---	---	--	--	--	--	--	--	--	1	--	--	--
--	--	1	1	2	---	---	---	1	---	--	1	--	6	Total....	Wives.	---	--	--	---	1	3	---	---	--	1	1	--	--	--	--	--	--	--
--	--	---	1	2	---	---	---	---	---	---	1	--	4	Married..		---	--	--	---	1	3	---	---	--	--	--	--	--	--	--	--	--	--
--	--	1	---	---	---	---	---	1	---	---	---	--	2	Widowed		---	-	--	---	---	---	---	---	--	1	1	--	--	--	--	--	--	--

[a] Includes all under five years of age.

Digitized by Google

In Table XXVIII. all males aged fifteen years and under, and all females aged twelve years and under were compiled as single when the conjugal condition was not stated. This table is similar to Table XXIX. in "Vital Statistics, 1870," and to Table XX. in the Report for 1869.

EXHIBIT Q.—*The Average Age of the Inhabitants of Michigan, of Both Sexes, of Each Sex, and the Difference between the Sexes, for all Living June 1, 1870, and all returned as having Died during the Year ending June 1, 1870, as Compiled from the U. S. Census of that date; for all returned as having Died from Consumption during the Year 1870; for all returned as having Died from All Causes during the years 1870 and 1871, as shown by the Registration Returns; for all Living Aged Twenty and Over, as per Census June 1, 1870; for all Aged Twenty and Over whose Ages and Occupations were stated in the Registration Returns of Deaths for the Years 1870 and 1871.*

	Average Age in Years and 100ths of a Year.				Year Ending:
	Total.	Males.	Females.	Excess of Males.	
Deaths, as per Census	24.79	25.17	24.89	.78	June 1st, 1870.
Living, as per Census	24.32	24.91	23.68	1.23	June 1st, 1870.
Deaths as shown by Registration Returns	23.50	24.05	22.89	1.16	Dec. 31st, 1870.
Deaths from Consumption, by Reg. Returns	34.95	36.89	33.14	3.75	Dec. 31st, 1870.
All Living aged 20 and over, per Census	38.23	38.61	37.80	.81	June 1st, 1870.
All aged 20 and over, whose occupations were stated in Reg. Returns of Deaths	51.01	52.45	45.96	6.49	Dec. 31st, 1870.
Deaths as shown by Registration Returns	25.63	26.78	24.50	2.28	Dec. 31st, 1871.
All aged 20 and over, whose occupations were stated in Reg. Returns of Deaths	51.44	52.79	46.45	6.34	Dec. 31st, 1871.

Rule used for obtaining the average age: Multiply the number at each age by the age; add the results, and then add one-half month for each person under one year, and one-half year for each person over one year of age, and divide the product by the whole number of inhabitants, or persons dead, as the case may be, less the number at unknown ages.

Digitized by Google

TABLE XXIX.—*Exhibiting, by Classified Occupations, the Number, with the Aggregate and Average Ages of all whose Occupations and Ages were returned, of those Aged Twenty Years and Over,—One-half of a Year added to Age of each Person, in place of Months and Days Excluded.*

Classes.	Occupations.	No. of Persons.	Age.	
			Aggregate.	Average.
	All Specified Occupations	2,591	133,274.50	51.44
I.	Cultivators of the Earth	1,096	62,499.00	57.02
II.	Active Mechanics Abroad	128	6,744.00	52.69
III.	Active Mechanics in Shops	150	7,544.00	50.29
IV.	Inactive Mechanics in Shops	77	3,924.50	50.96
V.	Laborers—No Special Trades	258	11,364.50	44.02
VI.	Agents, Laborers Abroad, etc.	69	3,082.50	43.95
VII.	Seafaring Men	28	1,096.00	39.14
VIII.	Soldiers	2	124.00	62.00
IX.	Business Men	137	6,241.50	45.56
X.	Professional Men	62	2,888.00	45.77
XI.	Unemployed	36	2,182.00	60.61
XII.	Females	558	25,684.50	46.45
I.	Cultivators of the Earth	1,096	62,499.00	57.02
	Farmers	1,085	61,899.50	57.05
	Farmers and Gardeners	1	42.50	42.50
	Farmers' Sons	1	20.50	20.50
	Farm Laborers	1	24.50	24.50
	Fruit Growers	1	48.50	48.50
	Gardeners	2	135.00	67.50
	Nurserymen	1	60.50	60.50
	Retired Farmers	4	268.00	67.00
II.	Active Mechanics Abroad	128	6,744.00	52.69
	Bricklayers	1	49.50	49.50
	Builders	2	94.00	47.00
	Carpenters	77	4,376.50	56.88
	Carpenters and Joiners	2	72.00	36.00

Digitized by Google

TABLE XXIX.—CONTINUED.

Classes.	Occupations.	No. of Persons.	Age. Aggregate.	Age. Average.
II.	ACTIVE MECHANICS ABROAD—(Continued).			
	Caulkers	1	25.50	25.50
	Joiners	6	302.00	50.33
	Masons	16	826.00	51.62
	Painters	15	638.50	42.57
	Pavers	1	53.50	53.50
	Ship-carpenters	2	103.00	51.50
	Stone-masons	5	203.50	40.70
III.	ACTIVE MECHANICS IN SHOPS	150	7,544.00	50.29
	Bakers	4	233.00	58.25
	Basket-makers	1	66.50	66.50
	Blacksmiths	21	1,150.50	54.78
	Boiler-makers	3	127.50	42.50
	Brass-finishers	1	22.50	22.50
	Brewers	4	146.00	36.50
	Cabinet-makers	7	360.50	51.50
	Candy-makers	1	45.50	45.50
	Cooks	1	49.50	49.50
	Coopers	12	656.00	54.65
	Engineers	12	443.00	36.91
	Glaziers	1	35.50	35.50
	Gunsmiths	1	42.50	42.50
	Hoop and Shingle-makers	1	28.50	28.50
	Lithographers	1	24.50	24.50
	Machinists	7	286.50	40.92
	Manufacturers	1	83.50	83.50
	Mechanics	22	1,187.00	53.95
	Millers	13	719.50	55.34
	Millwrights	2	122.00	61.00
	Moulders	2	122.00	61.00
	Pattern-makers	1	36.50	36.50

Digitized by Google

TABLE XXIX.—CONTINUED.

Classes.	Occupations.	No. of Persons.	Age.	
			Aggregate.	Average.
III.	ACTIVE MECHANICS IN SHOPS—(Continued.)			
	Plasterers	3	159.50	53.16
	Sawyers	4	138.00	34.50
	Saw-makers	1	39.50	39.50
	Stone cutters	2	79.00	39.50
	Tanners	3	193.50	64.50
	Tinsmiths	5	197.50	39.50
	Tinners	1	25.50	25.50
	Trunk-manufacturers	1	37.50	37.50
	Turners	1	63.50	63.50
	Upholsterers	2	89.00	44.50
	Wagon-makers	4	279.00	69.75
	Weavers	3	229.50	76.50
	Wood-turners	1	24.50	24.50
IV.	INACTIVE MECHANICS IN SHOPS	77	3,924.50	50.96
	Barbers	5	177.50	35.50
	Cigar-makers	1	59.50	59.50
	Harness-makers	9	359.50	39.94
	Jewelers	2	92.00	46.00
	Printers	3	96.50	32.16
	Saddlers	2	57.00	28.50
	Shoemakers	33	1,967.50	59.62
	Tailors	17	961.50	56.55
	Telegraph Operators	4	103.00	25.75
	Tobacconists	1	50.50	50.50
V.	LABORERS—NO SPECIAL TRADES	253	11,364.50	44.92
	House-keepers	1	58.50	58.50
	Laborers	232	10,519.00	45.34
	"Mill Man"	1	38.50	38.50
	Miners	14	543.00	38.78
	Nurses	1	51.50	51.50

Digitized by Google

TABLE XXIX.—CONTINUED.

Classes.	Occupations.	No. of Persons.	Age.	
			Aggregate.	Average.
	LABORERS—NO SPECIAL TRADES—(Continued).			
	Raftsmen	1	21.50	21.50
	Railroad Laborers	2	76.00	38.00
	"Saw-mill"	1	56.50	56.50
VI.	AGENTS, LABORERS ABROAD, ETC.	69	3,032.50	43.95
	Bar-tenders	1	30.50	30.50
	Brakemen	2	45.00	22.50
	Butchers	8	366.00	45.75
	Constables	1	56.50	56.50
	Draymen	4	271.00	67.75
	Drivers	1	40.50	40.50
	Drovers	1	49.50	49 50
	Farriers	1	54.50	54.50
	Fish-mongers	1	38.50	38.50
	Foremen	1	44.50	44.50
	Government Watchmen	1	73.50	73.50
	Hostlers	2	69.00	34.50
	Hunters	2	99.00	49.50
	Livery-keepers	4	155.00	38.75
	Lumbermen	17	740.50	43.55
	Mining Agents	1	43.50	43.50
	Musicians	1	23.50	23.50
	Peddlers	4	189.00	47.25
	Policemen	1	40.50	40.50
	Railroad Employes	1	20.50	20.50
	Railroad Conductors	4	170.00	42.50
	Sportsmen	1	43.50	43.50
	Teamsters	8	328.00	41.00
	Traveling Agents	1	40.50	40.50
VII.	SEAFARING MEN	28	1,096.00	39.14
	Boatmen	1	27.50	27.50

Digitized by Google

TABLE XXIX.—Continued.

Classes.	Occupations.	No. of Persons.	Age.	
			Aggregate.	Average.
VII.	Seafaring Men.—(Continued.)			
	Fishermen	2	96.00	48.00
	Sailors	23	899.50	39.10
	Seamen	1	26.50	26.50
	Ship Captains	1	46.50	46.50
VIII.	Soldiers	2	124.00	62.00
IX.	Business Men	137	6,241.50	45.56
	Bankers	5	196.50	39.30
	Book-keepers	7	249.50	35.64
	City Treasurers	1	41.50	41.50
	City Controllers	1	56.50	56.50
	Clerks	26	874.00	33.61
	Clothiers	2	115.00	57.50
	County Treasurers	1	53.50	53.50
	Druggists	3	144.50	48.16
	Grocers	5	252.50	50.50
	Horse-dealers	1	42.50	42.50
	Hotel-keepers	12	646.00	53.83
	Hotel Clerks	1	21.50	21.50
	Insurance Agents	3	182.50	60.83
	Justices of the Peace	1	69.50	69.50
	Landlords	2	105.00	52.50
	Land Agents	1	71.50	71.50
	Liquor-dealers	1	38.50	38.50
	Lumber-dealers	4	150.00	37.50
	Lumber Inspectors	1	56.50	56.50
	Merchants	30	1,453.00	48.43
	Omnibus Proprietors	1	51.50	51.50
	Overseers of Mining Companies	1	35.50	35.50
	Owners of Steam Saw-Mills	1	42.50	42.50
	Postmasters	2	141.00	70.50

Digitized by Google

TABLE XXIX.—Continued.

Classes.	Occupations.	No. of Persons.	Age.	
			Aggregate.	Average.
IX.	Business Men.—(Continued.)			
	Produce-dealers	1	64.50	64.50
	Revenue Officers	1	62.50	62.50
	Salesmen	1	43.50	43.50
	Saloon-keepers	17	755.50	44.44
	Shoe Merchants	2	87.00	43.50
	Traders	1	65.50	65.50
	Woolen Manufacturers	1	72.50	72.50
X.	Professional Men	62	2,838.00	45.77
	Architects	1	22.50	22.50
	Artists	2	73.00	36.50
	Dentists	5	148.50	29.70
	Editors and Printers	1	56.50	56.50
	Lawyers	15	687.50	45.83
	Ministers	12	657.00	54.75
	Physicians	15	781.50	52.10
	Priests	1	55.50	55.50
	Public Speakers	1	36.50	36.50
	Students	1	21.50	21.50
	Surveyors	1	26.50	26.50
	Teachers	7	271.50	38.78
XI.	Unemployed	36	2,182.00	60.61
	"Gentlemen"	2	137.00	68.50
	Paupers	4	276.00	69.00
	Retired	1	77.50	77.50
	Unemployed	29	1,691.50	58.32
XII.	Females	553	25,684.50	46.45
	Blacksmiths' Wives	2	110.00	55.00
	Cabinet-makers	1	48.50	48.50
	Carpenters' Wives	1	33.50	33.50

Digitized by Google

TABLE XXIX.—CONTINUED.

Classes.	Occupations.	No. of Persons.	Age.	
			Aggregate.	Average.
XII.	FEMALES.—(Continued.)			
	Cooks	2	67.00	33.50
	Domestics	2	82.00	41.00
	Dress-makers	3	91.50	30.50
	Farmers	67	3,557.50	53.09
	Farmers' Daughters	1	25.50	25.50
	Farmers' Widows	1	75.50	75.50
	Farmers' Wives	61	2,915.50	47.79
	Hair-dressers	1	22.50	22.50
	Hotel-keepers	1	25.50	25.50
	House-keepers	132	6,020.00	45.60
	Housewives	35	1,671.50	47.75
	House-workers	22	1,139.00	51.77
	Joiners	1	42.50	42.50
	Laborers	5	207.50	41.50
	Laborers' Wives	1	55.50	55.50
	Lumbermen's Wives	1	20.50	20.50
	Masons	1	53.50	53.50
	Manufacturers' Wives	1	34.50	34.50
	Matrons	1	75.50	75.50
	Merchants' Wives	1	36.50	36.50
	Milliners	4	97.00	24.25
	Millwrights	1	67.50	67.50
	Ministers	1	67.50	67.50
	Ministers' Wives	1	72.50	72.50
	Mothers	1	22.50	22.50
	Music Teachers	3	87.50	29.16
	Nurses	2	112.00	56.00
	Peddlers	1	64.50	64.50
	Physicians' Wives	1	49.50	49.50
	Portrait Painters	1	22.50	22.50
	Prostitutes	1	28.50	28.50

Digitized by Google

TABLE XXIX.—CONTINUED.

Classes.	Occupations.	No. of Persons.	Age.	
			Aggregate.	Average.
XII.	Females.—(Continued.)			
	Sailors' Wives	1	23.50	23.50
	Saloon-keepers	1	52.50	52.50
	Seamstresses	3	122.50	40.83
	Servants	4	91.00	22.75
	Sisters of Charity	1	27.50	27.50
	Stove Manufacturers' Wives	1	33.50	33.50
	Tailoresses	4	138.00	34.50
	Teachers	15	410.50	27.36
	Unemployed	139	6,490.50	46.69
	Weavers	4	282.00	70.50
	Wives	19	910.50	47.92

The occupation is not yet stated in the returns of deaths for all who die at such ages as people usually have occupations. Some Supervisors seem to think that the occupation should only be stated where the deceased was employed very nearly to the time of death. Knowledge of the nature of the employment is wanted to render it possible to answer the question of the nature and extent of the influence of employments and coincident surrounding conditions in the production of certain diseases, as well as in increasing their fatality. The employment of every person above the age of childhood should be stated, and when necessarily unemployed for some time before death, the previous occupation should be given. Many Supervisors still fail to state the occupation of females. It should be stated in every instance.

Digitized by Google

TABLE XXX.—*Exhibiting for the Year, for each Month, and an Average Month, during the Year 1871, the Mean Height and Range of Barometer; the Direction of the Prevailing Winds; the Relative Humidity; the Per Cent. of Cloudiness; the Number of Days on which it Rained or Snowed; and the Depth of Rain and Melted Snow in Inches, at the Agricultural College, near Lansing, Michigan.*

YEAR AND MONTHS, 1871.	Barometer—Reduced to 32° Fahrenheit—Mean.	Range of Barometer.	Days of Prevailing Winds.								Relative Humidity, or Per Cent. of Saturation—Average.	Per Cent. of Cloudiness of Sky—Average.	Number of Days on which it Rained or Snowed.	Rain and Melted Snow, in Inches.
			North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.				
Year	28.884	6.079	35	51	15	23	10	152	56	22	80.25	58.58	109	27.21
January	28.908	.972	.....	4	4	.....	1	8	13	1	93	82	16	3.95
February	28.816	.978	1	6	5	1	1	5	9	.....	90	69	10	1.73
March	28.810	.844	1	3	3	2	.....	16	4	2	83	66	11	3.91
April	28.722	5.375	2	4	.....	2	.....	16	3	3	74	63	12	2.97
May	28.904	.527	4	5	.....	4	1	13	3	1	72	37	8	1.97
June	28.865	.538	3	2	.....	2	.....	11	5	2	74	42	9	2.93
July	28.891	1.371	6	4	.....	2	1	11	6	1	77	49	8	3.10
August	28.907	.782	4	4	2	3	2	12	3	1	78	44	7	1.42
September	29.038	.589	5	7	.....	.....	2	10	1	4	73	48	4	.79
October	28.909	.685	1	2	.....	1	2	23	2	.....	72	53	5	1.43
November	28.964	.905	.....	9	.....	4	.....	10	3	4	86	69	9	1.25
December	28.880	.982	3	1	1	2	.....	17	4	3	86	81	10	1.76
Monthly Average	28.884	1.212	2.92	4.25	1.25	1.92	.83	12.67	4.67	1.83	80.25	58.58	9.08	2.27

Digitized by Google

The material for Tables XXX. and XXXI. was taken from the Report of the State Board of Agriculture for the year 1870. The observations, upon which the statements are based, were made by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing.

The material for Table XXXII., so far as relates to the month of July was received from the Smithsonian Institution, at Washington, D. C., and that for the months of August to December, inclusive, from J. M. Blakely, of Alpena, Michigan. The observations upon which the statements in the table are based were made by J. W. Paxton at Sugar Island, Alpena Co., who contributed the material for the first half of the table.

TABLE XXXI.—*Exhibiting the Mean Temperature; the Highest and Lowest Temperature; the Monthly Range; the Mean Daily Range; the Mean Range from Day to Day; and the Greatest Rise or Fall of Thermometer in Twenty-four Hours for each Month of the Year 1871, at the Agricultural College, near Lansing, Michigan.*

YEAR AND MONTHS, 1871.	THERMOMETER.—FAHRENHEIT.							
	THREE OBSERVATIONS DAILY, AT 7 A. M., 2 P. M., AND 9 P. M.				MEAN RANGE.		GREATEST CHANGE IN 24 HOURS.	
	Mean.	Highest.	Lowest.	Range.	Daily.[a]	From Day to Day.[b]	Degrees of Rise and Fall.	Day and Month.
Year	47.98	100	-23	123	16.52°	19.97°	F. 52°	Apr. 9
January	24.75	57	5	52	8.35°	11.03°	R. 23°	4
February	25.65	57	-2	59	13.71	17.89	R. 31	28
March	38.18	70	23	47	14.42	19.26	R. 29	25
April	50.13	87	32	55	19.13	24.83	F. 52	9
May	61.39	94	41	53	18.39	22.09	R.&F. 31	11
June	68.21	98	44	54	18.83	21.60	R. 35	14
July	70.60	95	49	46	18.61	21.48	R. 37	29
August	71.19	100	54	46	18.55	21.74	R. 38	6
September	58.10	96	31	65	22.43	24.80	R. 37	30
October	53.91	80	27	53	18.39	21.90	R.&F. 40	21
November	31.95	62	-2	64	15.27	18.23	R. 33	7
December	21.12	51	-23	74	12.13	15.35	R.&F. 29	23

[a] Observed day of 14 hours,—three observations,—at 7 a. m., 2 p. m., and 9 p m.
[b] From day to day,—2 p. m. to 2 p. m.

Digitized by Google

TABLE XXXII.—*Showing the Mean Temperature, the Highest and Lowest Temperature, the Monthly Range, the Mean Daily Range, the Average Range from Day to Day, the Greatest Change in 14 and 24 Hours; and also the Days of Prevailing Winds, the Average Cloudiness of Sky, the No. of Days on which it Rained or Snowed, and the Amount of Rain and Melted Snow in Inches, for each Month of the Year 1871, at Sugar Island, Alpena Co., Michigan.*

Year and Months, 1871.	Three Observations Daily,—at 7 A. M., 2 P. M., and 9 P. M.																					
	Thermometer—Fahrenheit.										Days of Prevailing Winds.										
							Greatest Change in 14 Hours,—7 A. M. to 9 P. M.		Greatest Change in 24 Hours,—2 P. M. to 2 P. M.												
	Mean.	Highest.	Lowest.	Range.	Mean Daily Range.	Av. Range from Day to Day, 2 P. M. to 2 P. M.	Degrees of Rise or Fall.	Day of Month.	Degrees of Rise or Fall.	Day of Month.	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.	Av. Cloudiness of Sky. (10 as Maximum.)	No. of Days on which it Rained or Snowed.	Rain and Melted Snow, in Inches.
Year	42.45°	76°	-9°	85°	7.31°	9.47°	R. 20	Oct. 21	F. 29	Feb. 3 & 4	42⅔	17⅔	20	72⅔	48⅔	80⅓	38⅓	65⅓	*5.64	71	24.22
January	22.18°	42°	4°	38°	6.28°	8.86°	R. & F. 12	17 & 21	F. 22	21 & 22	1⅓	2	1	5⅓	5⅓	1⅓	7	6⅓	6.72	10	4.49
February	23.23	40	2	38	7.28	10.71	F. 16	9	F. 29	3 & 4	1⅔	1⅔	1⅔	4⅓	5	2⅓	3⅓	5⅔	6.89	6	1.48
March	32.51	40	23	17	5.58	6.57	R. 13	25	R. & F. 18	3, 4, 18, 19, 25	5	1⅔	3	5⅔	4⅔	3	1⅔	4⅓	6.67	10	1.94
April	38.75	50	28	22	7.03	8.86	F. 16	9	F. 18	9 & 10	5⅓	2⅓	3	5⅔	6	2⅓	⅓	3⅓	*2.08	8	2.85
May	49.49	70	30	40	8.65	11.03	R. 19	6 & 25	F. 22	26 & 27	3⅓	2	⅔	3⅓	2⅔	1	⅔	4⅔	4.68	4	1.77
June	59.13	72	46	26	7.96	10.55	R. 14	10	F. 22	7 & 8	2⅔	1	2	7	1⅓	1⅔	1⅓	3	4.90	3	1.00
July	62.75	75	51	24	8.06	9.35	R. 18	1	F. 17	2	7	2	1	7⅔	3	2	1⅔	4⅔	4.60	7	3.77

Digitized by Google

August.....	64.97	76	52	24	7.90	9.54	F. 14	20	F. 18	29	4⅕	1⅕	2⅗	11	2⅔	1	1	3⅗	4.10	5	.82
September.	55.50	75	34	41	9.43	11.90	R. 18	28 & 25	F. 24	25	4	1⅗	1⅕	3	7	3⅕	2⅗	6	3.88	3	1.42
October....	48.97	69	34	35	8.12	9.41	R. 20	21	R. 24	21	1⅗	1	2	5⅕	6	6	4⅕	4⅗	4.23	5	1.58
November.	32.02	44	14	30	4.73	7.20	R. 12	7 & 9	F. 21	26	4⅕	1	1⅗	6⅗	1	2	3⅕	9	8.42	5	2.16
December..	19.95	36	-9	45	6.74	9.41	R. 19	22	F. 19	20	2⅕	⅕	----	2⅗	4	4⅕	11	5	8.60	5	.94

* No record of first thirteen days of April.

Digitized by Google

Digitized by Google

LAWS OF MICHIGAN

CONCERNING THE

SOLEMNIZATION OF MARRIAGES,

AND THE

RECORD AND RETURN

OF

BIRTHS, MARRIAGES, AND DEATHS.

Digitized by Google

Digitized by Google

CHAP. CLXIX., COMPILED LAWS OF 1871.

MARRIAGE AND THE SOLEMNIZATION THEREOF.

SECTION.
4719. Who shall be capable of contracting Marriage.
4720. Marriage is a civil contract.
4721. Who shall not intermarry.
4723. 4724. Who not to marry.
4725. Marriage, by whom solemnized.
4726. One of parties to be examined on oath.
4727. No particular form required.
4728. Forfeiture for joining persons in Marriage contrary to law.
4729. Punishment of persons unauthorized etc.
4730. Marriages not void in certain cases.
4731. Marriages among Quakers, etc.
4732. Certificates and record made evidence.

Chapter Eighty-three of Revised Statutes of 1846.[a]

(4719.) SECTION 1. Every male who shall have attained the full age of eighteen years, and every female who shall have attained the full age of sixteen years, shall be capable in law of contracting marriage, if otherwise competent.

(4720.) SEC. 2. Marriage, so far as its validity in law is concerned, is a civil contract, to which the consent of parties capable in law of contracting is essential.

(4721.) SEC. 3. No man shall marry his mother, grandmother, daughter, granddaughter, stepmother, grandfather's wife, son's wife, grandson's wife, wife's mother, wife's grandmother, wife's daughter, wife's granddaughter, nor his sister, brother's daughter, sister's daughter, father's sister, or mother's sister.

(4722.) SEC. 4. No woman shall marry her father, grandfather, son, grandson, stepfather, grandmother's husband, daughter's husband, granddaughter's husband, husband's father, husband's grandfather, husband's son, husband's

[a] For prior Statutes relative to the solemnization of Marriages, see Woodward Code, p. 42; Cass Code, p. 111; Code of 1820, p. 259; Rev. of 1827, p. 280; Laws of 1832, p. 6; Rev. of 1833, p. 329; R. S. of 1838, p. 333.

Digitized by Google

grandson, nor her brother, brother's son, sister's son, father's brother, or mother's brother.

(4723.) SEC. 5. No marriage shall be contracted whilst either of the parties has a former wife or husband living, unless the marriage with such former wife or husband shall have been dissolved.

(4724.) SEC. 6. No white person shall intermarry with a negro, and no insane person or idiot shall be capable of contracting marriage.

(4725.) SEC. 7. Marriages may be solemnized by any justice of the peace in the county in which he was chosen, and they may be solemnized throughout the State by any minister of the gospel who has been ordained according to the usages of his denomination, and who is a pastor of any church or churches in this State, or who shall continue to preach the gospel in this State: *Provided,* That all non-resident ministers of the gospel who are authorized by this act to solemnize marriages, shall keep proper records and make returns as required by section two, chapter sixteen of the compiled laws of eighteen hundred and seventy-one.[a] [b]

(4726.) SEC. 8. All justices of the peace and ministers of the gospel are hereby authorized and required, before solemnizing any marriage, to examine at least one of the parties on oath, which oath they are hereby authorized to administer, as to the legality of such intended marriage.

(4727.) SEC. 9. In the solemnization of marriages, no particular form shall be required, except that the parties shall solemnly declare, in the presence of the magistrate or minister, and the attending witnesses, that they take each other as husband and wife; and in every case there shall be at least two witnesses, besides the minister or magistrate, present at the ceremony.

SEC. 10.[c]

SEC. 11.[c]

SEC. 12.[c]

SEC. 13.[c]

---

[a] As amended by Act No. 85, Laws of Michigan, 1873.
[b] Previous to 1871 the Mayor of Flint was also authorized to solemnize marriages.
[c] Repealed by Act 194, Laws of 1867, p. 266, Sec. 10.

Digitized by Google

(4728.) SEC. 14. If any justice of the peace or minister of the gospel shall join any person in marriage contrary to the provisions of this chapter, he shall forfeit for every such offense a sum not exceeding five hundred dollars.

(4729.) SEC. 15. If any person shall undertake to join others in marriage, knowing that he is not lawfully authorized so to do, or knowing of any legal impediment to the proposed marriage, he shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be punished by imprisonment in the county jail not more than one year, or by a fine not less than fifty nor more than five hundred dollars, or by both such fine and imprisonment, in the discretion of the court.

(4730.) SEC. 16. No marriage solemnized before any person professing to be a justice of the peace or a minister of the gospel, shall be deemed or adjudged to be void, nor shall the validity thereof be in any way affected, on account of any want of jurisdiction or authority in such supposed justice or minister: *Provided,* The marriage be consummated with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

(4731.) SEC. 17. The preceding provisions of this chapter, so far as they relate to the manner of solemnizing marriages, shall not affect marriages among the people called Friends or Quakers; nor marriages among people of any other particular denomination having, as such, any peculiar mode of solemnizing marriages; but such marriages may be solemnized in the manner heretofore used and practiced in their respective societies or denominations.

(4732.) SEC. 18. The original certificates and records of marriage made by the minister or justice, as prescribed in this chapter, and the record thereof made by the county clerk, or a copy of such record duly certified by such clerk, shall be received in all courts and places as presumptive evidence of the fact of such marriage.

Digitized by Google

AN ACT

TO PROVIDE FOR THE

REGISTRATION OF BIRTHS, MARRIAGES, AND DEATHS.

BEING ACT No. 194 OF 1867, AS AMENDED BY ACT No. 125 OF 1869.

Duties of supervisor and assessors.

SECTION 1. *The People of the State of Michigan enact*, That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: *Provided*, That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed

In 1869 returns to be made from April 5 to Dec. 31, 1868

Return to county clerk

In 1870 and thereafter.

Returns to include from January to December last preceding.

Statistics, how obtained.

Compensation.

Proviso relative to the city of Detroit.

Digitized by Google

by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them respectively, by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

Duty of common council.

Persons to be appointed by.

Compensation of persons so appointed.

How paid.

Penalties.

SEC. 2. Every justice of the peace, minister of the gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.

Marriages to be recorded.

Marriage of Quakers.

Certificates to be furnished.

Fee for recording.

SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by

County clerks; duties of.

Digitized by Google

the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages, and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate columns, the date of the birth, the name of the child (if it have any), the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death, the christian and surname of the deceased, the sex and color, whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the

Births, marriages and deaths to be numbered and indexed.

Record of births shall state.

Proviso.

Record of marriages shall state.

Record of deaths shall state.

Digitized by Google

names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records in his office, of all the births, marriages and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

Return of county clerk.

Compensation.

SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

Secretary of State; duties of.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State for that purpose, he shall prepare such tabular statements, results, and deductions therefrom as will render them of practical utility,

Bound volumes of reports.

Secretary of State's report to Governor.

Digitized by Google

and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

Neglect to keep records.

SEC. 6. Every justice of the peace, minister of the gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

Neglect to deliver certificates.

Penalty.

Certificate of death.

SEC. 7. Every physician, surgeon, or midwife, who shall have been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor a certified statement, without fee, containing the name of the disease, or cause (if known), producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of

Refusal to make certificate.

Penalty.

Digitized by Google

prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

Facts to be obtained by supervisor.

SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained), from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, workhouses, almshouses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail-vessels, navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer) in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpœnaed (as provided for compelling the attendance of witnesses in justices' courts) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who,

Refusal to furnish.

Obtained under oath.

Neglecting to answer a subpœna.

Penalty.

Digitized by Google

Perjury.

after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

Proviso.

Neglect to perform duties.

SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

Penalty.

Misdemeanor.

Sections repealed.

SEC. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 11. The several supervisors and assessors of the townships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixty-eight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding sections. And such county clerks as have made returns of the births, marriages and deaths to the Secretary of State for the year eighteen hundred and sixty-eight, and who have not received compensation therefor, shall be paid for the same at the rates set forth in the preceding sections.

THE END.

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google